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DEPARTMENT OF ENERGY, MINES AND RESOURCES, OTTAWA

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**CATALOGUE OF X-RAY DIFFRACTION PATTERNS
AND SPECIMEN MOUNTS ON FILE AT THE
GEOLOGICAL SURVEY OF CANADA**

M. BONARDI and R.J. TRAILL

1975



Energy, Mines and
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CATALOGUE OF X-RAY DIFFRACTION PATTERNS AND SPECIMEN MOUNTS

ON FILE AT THE GEOLOGICAL SURVEY OF CANADA

The reference collection of X-ray powder diffraction patterns of minerals on film, and the specimen mounts used to prepare the patterns, is maintained at the Geological Survey of Canada. The present catalogue lists 901 patterns which were on file as of September 1, 1973. Data given for each pattern include: reference number; mineral name; reference to published X-ray powder diffraction data, most commonly to the Joint Committee on Powder Diffraction Standards (JCPDS); and d-spacings and relative intensities of five strongest lines on the film, measured in our laboratory. Specimen mounts are available for all patterns, unless otherwise stated, and may be issued on loan to other laboratories where a reference film library is maintained. Persons wishing to borrow specimen mounts should write to:

Director,
Geological Survey of Canada
601 Booth Street
Ottawa, Ontario
K1A 0E8

Most of the reference patterns were made from mineral specimens that constitute the Systematic Reference Series of the National Mineral Collection of Canada. Fragments of the minerals were selected under a microscope to ensure purity, then ground to a fine powder and mounted on the tip of a thin, vaseline-coated glass rod. The glass rods are attached with wax to metal pins which fit the holder of a Philips (Netherlands) Debye Scherrer powder camera. Unless otherwise noted, the reference films were prepared in a 57.54 mm diameter camera using copper radiation and a nickel filter. The listed d-spacings have not generally been corrected for film shrinkage or expansion and are, therefore, not in complete agreement with more precise data published elsewhere.

COLLECTIONS DE LA COMMISSION GEOLOGIQUE DU CANADA, CATALOGUE DES DIAGRAMMES DE DIFFRACTION DES RAYONS X ET DE SPECIMENS MONTES

La Commission géologique du Canada tient une collection de référence sur film des diagrammes de diffraction des rayons X (méthode des poudres) des minéraux et des spécimens montés utilisés à la préparation des diagrammes. Le catalogue comprend les 901 diagrammes au fichier le 1^{er} septembre 1973. Les données de chaque diagramme comportent le numéro de référence, le nom du minéral, la référence des données publiées de diffraction des rayons X (méthode des poudres), en général par Joint Committee on Powder Diffraction Standards (JCPDS) (Comité mixte des modèles de diffraction par la méthode des poudres), les distances interréticulaires et les intensités relatives des cinq raies les plus intenses du film, mesurées à notre laboratoire. Les spécimens

An index of the measured data for the five strongest lines, which we have found useful for identification purposes, follows the catalogue listing. The d-spacing of the "strongest" line is listed in the first column, followed by its intensity, and the d-spacings and intensities of the other four lines in order of decreasing d-spacings. The final column gives the reference number of the mineral pattern in the catalogue. To allow for variations in estimating intensities the five lines have been permuted so that each is listed as "strongest". Identification of an unknown pattern is made by listing the measured data for five strongest lines in order of decreasing d-spacings, then searching the index in the vicinity of the d-spacing of the strongest line for an approximate match of the d-spacings of the other strong lines. The reference numbers of possible matching patterns (final column in the table) are consulted in the main catalogue to obtain mineral names and references to detailed data with which to confirm the identification.

In our laboratory we have automated the search process by placing all of the numerical data from the catalogue on a magnetic tape file used in conjunction with a small (8K memory) Hewlett-Packard computer. A program has been written in HP Fortran IV (Appendix I) to enable us to input measured data for an unknown pattern and carry out a search of the reference data for matching patterns. We obtain a printout of all reference patterns for which a pre-selected number (e.g. 3) of d-spacing values agree within pre-selected limits (e.g. $\pm 0.02\text{\AA}$) with the data measured on the unknown pattern. The final identification is made by visual comparison with the standard reference films from our collection.

montés ayant servi à établir les diagrammes, sauf indication contraire, ont été conservés et peuvent être prêtés aux laboratoires qui tiennent une collection de référence de ces diagrammes. Les personnes désireuses d'emprunter de ces spécimens montés doivent écrire au:

Directeur
Commission géologique du Canada
601, rue Booth
Ottawa (Ontario)
K1A 0E8

La plupart des diagrammes de référence ont été obtenus à partir de spécimens sélectionnés de la Série de

référence systématique de la Collection canadienne des minéraux. Les fragments des minéraux ont fait l'objet d'une analyse au microscope pour s'assurer de leur pureté, puis d'un broyage en fine poudre déposée sur l'extrémité vaselinée d'un mince tige de verre. La tige de verre est collée à la cire sur une aiguille de métal qui s'adapte au porte-objet d'une caméra Debye Sherrer de fabrication Philips (Pays-Bas). Sauf indication contraire, les diagrammes de référence ont été filmés en 57,54 mm de diamètre et les rayons X provenaient d'une anticathode de cuivre à travers un filtre de nickel. Les distances interréticulaires données ne sont généralement pas corrigées pour les erreurs dues à la contraction ou à l'allongement de la pellicule; elles ne sont donc pas tout à fait conformes aux données plus précises publiées ailleurs.

Pour faciliter le travail d'identification, nous avons jugé utile d'ajouter au catalogue un index des données mesurées pour les cinq raies les plus intenses. La distance interréticulaire correspondant à la raie «d'intensité maximale» se trouve dans la première colonne, suivie de son intensité et des distances interréticulaires et intensités respectives des quatre autres raies, en ordre de distances interréticulaires décroissantes. La dernière colonne donne le numéro de référence dans le catalogue du diagramme du minéral. Pour tenir compte de l'erreur d'appréciation dans l'estimation des intensités, nous avons permuté les cinq raies de sorte que chacune apparaît une fois dans la colonne

des raies «d'intensité maximale». Pour identifier un diagramme donné, on dresse la liste des données mesurées pour cinq raies les plus intenses, dans l'ordre de distances interréticulaires décroissantes, puis on cherche dans l'index, au voisinage de la distance interréticulaire de la raie «d'intensité maximale» une corrélation approximative avec les quatre autres raies les plus intenses. Il ne reste qu'à consulter le catalogue, aux numéros de référence des diagrammes présentant des corrélations possibles, pour obtenir les noms des minéraux et des données plus détaillées qui permettront de confirmer leur identité.

Au laboratoire, nous avons automatisé le processus de recherche en faisant entrer les données numériques du catalogue dans un fichier sur bande magnétique, qu'on peut consulter à l'aide d'un petit ordinateur (mémoire de 8K) Hewlett-Packard. Un programme en langage HP Fortran IV (Appendice I) nous permet, en introduisant les données mesurées d'un diagramme donné, de rechercher dans le fichier les données de référence des diagrammes en corrélation. Nous obtenons à la sortie, la liste des diagrammes de référence pour lesquels un nombre choisi à l'avance (par exemple, 3) de distances interréticulaires sont conformes, dans certaines limites pré-établies (par exemple, $\pm 0,02A$), aux données mesurées du diagramme à identifier. L'identification finale se fait par comparaison visuelle avec les diagrammes types de référence de notre collection.

X-RAY DIFFRACTION PATTERNS

001	ACANTHITE	Freiberg, Saxony. JCPDS 14-0072. 3. 08(7) 2. 84(7) 2. 59(10) 2. 44(9) 2. 37(9)	016	ALTAITE	Long Lake, Yale, British Columbia. JCPDS 8-0028. 3. 23(10) 2. 29(9) 1. 86(5) 1. 45(6) 1. 31(5)
002	ADAMITE	Tsumeb, South West Africa. JCPDS 6-0536. 4. 90(9) 2. 99(9) 2. 70(8) 2. 46(10) 1. 62(9)	017	ALUMINITE	Halle, Germany, Srebrodolsky, B. I. (1970): Min. Sbornik, Lvov. 24-4, p. 436. 4. 51(10) 4. 17(8) 3. 55(5) 2. 72(7) 2. 26(8)
003	AENIGMATITE	Naujakasuk, Ilimaussag, Greenland. JCPDS 22-1453. 7. 90(7) 3. 14(9) 2. 71(9) 2. 56(10) 2. 13(8)	018	ALUNITE	Muszay, Hungary. JCPDS 14-0136. 4. 98(8) 3. 00(10) 2. 30(8) 1. 91(8) 1. 51(7)
004	AERINITE	Estopian Huesca, Spain. Garrido, J. (1949): Bull. Soc. Franc. Min., 72, p. 407. 4. 04(10) 3. 69(3) 3. 23(7) 2. 73(7) 2. 13(5)	019	ALUNOGEN	Springhill, Cumberland County, Nova Scotia. Cabinet, M. P. (1957): Min. Sbornik, Lvov, 11, p. 134. 4. 48(10) 4. 37(10) 3. 95(4) 3. 03(5) 2. 95(5)
005	AFWILLITE	Translusento, Crestmore, California. JCPDS 9-0454. 3. 19(9) 2. 84(10) 2. 72(9) 2. 15(7) 1. 93(7)	020	AMALGAM	Synthetic. Berry, L. G. and Thompson, R. M. (1962): Geol. Soc. Amer., Mem. 85, p. 11. 2. 37(10) 2. 05(6) 1. 45(6) 1. 24(7) 1. 19(2)
006	AIKINITE	Berezon, Ural Mountains, U. S. S. R. JCPDS 7-0223. 3. 66(10) 3. 19(9) 2. 87(9) 1. 96(4) 1. 76(3)	021	AMBLYGONITE	Keystone, South Dakota. JCPDS 22-1138. 4. 65(10) 3. 16(10) 2. 98(8) 2. 40(5) 2. 12(4)
007	AJOITE	Lima County, Arizona. JCPDS 11-0312. 6. 18(9) 4. 11(9) 3. 09(10) 2. 94(7) 2. 81(9)	022	AMMONIA-NITRE	Synthetic reagent. JCPDS 8-0452. 4. 96(5) 3. 97(7) 3. 09(10) 2. 73(8) 2. 25(7)
008	AKERMANITE	Oka, Quebec. JCPDS 10-0391. 4. 23(4) 3. 71(4) 3. 09(4) 2. 87(10) 1. 76(5)	023	AMMONIOJAROSITE	Wamsutter, Wyoming. JCPDS 17-0753. 5. 83(3) 5. 10(6) 3. 10(10) 1. 99(4) 1. 82(4)
009	ALABANDITE	Nagyac, Transylvania. JCPDS 6-0518. 3. 01(2) 2. 61(10) 1. 84(9) 1. 50(3) 1. 30(1)	<u>AMPHIBOLE GROUP</u>		
010	ALGODONITE	Ahmeek Mine, Michigan, U. S. A. JCPDS 9-0429. 2. 25(3) 2. 12(4) 1. 99(10) 1. 55(1) 1. 31(1)	024	CUMMINGTONITE	Smallwood Mine, Labrador. JCPDS 17-0745. 8. 35(10) 3. 07(7) 2. 76(8) 2. 63(5) 2. 49(4)
011	ALLACTITE	Nordmarken, Sweden. JCPDS 17-0748. 3. 71(9) 3. 27(7) 3. 05(10) 2. 91(6) 2. 51(7)	025	TREMOLITE	Nordmark, Sweden. JCPDS 13-0437. 8. 43(10) 4. 53(8) 4. 16(10) 3. 13(9) 2. 72(9)
012	ALLANITE	Lac Pieds des Monts, Quebec. JCPDS 21-0146. 3. 56(6) 2. 94(10) 2. 72(5) 2. 63(5) 1. 65(5) The mineral was heated 5 minutes in vacuum, at 1, 000°C.		ACTINOLITE	Dorchester, Quebec.
013	ALLEGHANYITE	Alleghany County, North Carolina. JCPDS 22-0726. 3. 26(6) 3. 15(7) 2. 87(8) 2. 61(7) 1. 81(10) Iron radiation		ANTHOPHYLLITE	Burlington, Connecticut.
014	ALLEMONTITE	Allemont, France. JCPDS 12-0700. 3. 58(4) 2. 91(10) 2. 76(6) 2. 13(5) 1. 28(5)		ARFVEDSONITE	Montreal, Quebec.
015	ALLUAUDITE	Custer, South Dakota. JCPDS 14-0245. 6. 28(8) 3. 52(6) 3. 08(7) 2. 72(10) 2. 52(6)		CROCIDOLITE	Koegasbrug, South Africa.
				EDENITE	Grenville, Quebec.
				FERROACTINOLITE	Cassiar, British Columbia.
				GLAUCOPHANE	Üto, Sweden.
				GRUNERITE	Unknown locality.
				HASTINGSITE	Hastings County, Ontario.
				HOLMQUISTITE	Üto, Sweden.
				HORNBLÉNDE	Bilin, Bohemia.

- KAERSUTITE Umanak district, Greenland.
- MANGANIAN TREMOLITE St. Lawrence County,
New York.
- MOUNTAIN CORK Buckingham, Quebec.
- NEPHRITE New Zealand.
- RICHTERITE Langban, Sweden.
- RIEBECKITE El Paso, Colorado.
- WINCHITE Jhabua State, India.
- Specimen mounts are not available for FERROAC-
TINOLITE, HASTINGSITE, MANGANIAN TREMO-
LITE, MOUNTAIN CORK, RICHTERITE, RIEBECKITE
and WINCHITE.
-
- 026 ANALCIME Crisis Creek, British Columbia.
JCPDS 7-0363.
5.61(9) 3.43(10) 2.93(7) 2.70(5) 1.75(6)
- 027 ANATASE Travetsch, Switzerland.
JCPDS 21-1272.
3.52(10) 2.38(2) 1.89(4) 1.70(2) 1.67(3)
- 028 ANCYLITE Ravolli County, Montana.
JCPDS 14-0345.
4.35(10) 3.71(10) 2.96(10) 2.35(8) 2.09(7)
- 029 ANDALUSITE Bathurst Inlet, Northwest Ter-
ritories. JCPDS 13-0122.
5.54(9) 4.53(10) 3.95(9) 2.78(9) 2.18(9)
- 030 ANDERSONITE Homestake, New Mexico.
JCPDS 20-1092
7.90(10) 5.68(10) 5.23(9) 4.31(10) 3.68(6)
- 031 ANDORITE Oruro, Bolivia. JCPDS 10-0499.
3.74(5) 3.45(6) 3.30(10) 2.90(10) 2.76(5)
- 032 ANGLESITE Mount Zechan, Tasmania.
JCPDS 5-0577.
4.27(10) 3.33(8) 3.27(7) 3.02(10) 2.07(10)
- 033 ANHYDRITE Lambton County, Ontario.
JCPDS 6-0226.
3.49(10) 2.87(5) 2.34(4) 2.22(4) 1.87(4)
- 034 ANNABERGITE Churchill County, Nevada.
JCPDS 11-0625.
6.61(10) 3.20(9) 2.99(9) 2.69(9) 1.55(8)
- 035 ANTIMONY Kern County, California.
JCPDS 5-0562.
3.10(10) 2.25(8) 2.15(8) 1.77(6) 1.37(5)
- 036 ANTLERITE Chuquicamata, Chile. JCPDS 7-0407.
4.87(10) 3.60(8) 2.68(8) 2.58(9) 2.14(9)
- 037 APATITE Tory Hill, Ontario. JCPDS 15-0876.
3.46(5) 2.81(10) 2.71(6) 2.64(3) 1.95(4)
- 038 APHTHITALITE Mount Vesuvius, Italy.
JCPDS 20-0928.
4.04(6) 2.91(6) 2.81(10) 2.02(9) 1.64(5)
- 039 APLOWITE Walton, Nova Scotia. JCPDS 16-0488.
5.44(9) 4.46(10) 3.93(8) 3.40(5) 2.95(7)
- 040 APOPHYLLITE Guanojuato, Mexico.
JCPDS 19-0082.
7.69(7) 3.93(8) 3.59(8) 2.98(9) 2.50(10)
- 041 ARAGONITE Bilin, Bohemia. JCPDS 5-0453.
3.41(10) 3.28(7) 2.70(8) 2.37(7) 1.98(9)
- 042 ARAMAYOITE Bolivia. JCPDS 4-0696.
3.42(2) 3.21(4) 2.80(10) 2.05(2) 1.95(2)
- 043 ARCANITE Synthetic. JCPDS 5-0613.
4.17(7) 3.00(9) 2.90(10) 2.22(5) 2.08(7)
- 044 ARDENNITE Salmchateau, Belgium.
JCPDS 18-0141.
4.23(6) 3.16(6) 2.92(9) 2.59(10) 1.45(6)
- 045 ARGYRODITE Oruro, Bolivia. Harris, D.C. and
Owens, D.R. (1971): Can. Mineral.,
10, p. 897.
3.05(10) 2.68(6) 2.46(5) 2.04(5) 1.88(5)
- 046 ARROJADITE Chandlers Mills, New Hampshire.
JCPDS 6-0307.
3.40(2) 3.20(6) 3.04(10) 2.85(4) 2.71(8)
- 047 ARSENIC Edward Island, Port Arthur, Ontario.
JCPDS 5-0632.
3.53(4) 2.78(10) 2.05(6) 1.89(7) 1.56(4)
- 048 ARSENIOSIDERITE Mazapil, Mexico.
JCPDS 13-0134.
8.80(10) 5.68(6) 3.26(6) 2.96(7) 2.78(9)
- 049 ARSENOLITE Manhattan, Nevada. JCPDS 4-0566.
6.42(9) 3.20(10) 2.77(3) 2.54(4) 1.96(4)
- 050 ARSENOPYRITE Guysborough, Nova Scotia.
JCPDS 11-0154.
2.67(9) 2.43(10) 1.82(8) 1.63(4) 1.35(3)
- 051 ARTHURITE Majuba Hill, Nevada. JCPDS 16-0397.
10.30(10) 6.97(10) 4.82(9) 4.31(9) 2.81(8)
- 052 ARTINITE Vallanterna, Lombardy, Italy.
JCPDS 6-0484.
5.37(10) 3.71(9) 2.74(10) 2.21(7) 1.87(4)
- 053 ASTROPHYLLITE El Paso County, California.
JCPDS 14-0194.
3.51(10) 2.77(6) 2.65(7) 2.57(6) 1.76(4)
- 054 ATACAMITE Chuquicamata, Chile. JCPDS 2-0146.
5.40(10) 5.00(9) 2.82(9) 2.76(10) 2.26(10)

- 055 ATELESTITE Schneeberg, Sazony.
JCPDS 15-0735.
6. 61(3) 4. 25(4) 3. 25(10) 3. 13(4) 2. 73(5)
- 056 AUGELITE Keystone, South Dakota.
JCPDS 14-0380
4. 67(7) 3. 51(10) 3. 33(10) 2. 49(6) 1. 88(8)
- 057 AURICHALCITE Mapimi, Durango, Mexico.
JCPDS 17-0743.
6. 81(10) 3. 69(7) 3. 24(4) 2. 72(4) 2. 62(8)
- 058 AUROSTIBITE Yellowknife, Northwest Territories.
JCPDS 8-0460.
3. 77(7) 2. 98(8) 2. 72(7) 2. 36(6) 2. 01(10)
Mount not available.
- 059 AUSTINITE Mapimi Mexico. JCPDS 22-1068.
3. 17(10) 2. 79(10) 2. 63(10) 1. 61(9) 1. 51(6)
- 060 AUTUNITE Mount Spokane, Washington. Takano,
Y. (1961): Amer. Mineral., 46, p.
815.
10. 28(10) 4. 93(8) 3. 60(9) 3. 49(9) 2. 88(6)
- 061 AWARUITE Hoole Canyon, Pelly River, Yukon.
Williams, K.L. (1960): Amer. Min-
eral., 45, p. 451.
2. 05(10) 1. 77(6) 1. 26(5) 1. 07(5) 1. 02(1)
- 062 AXINITE Dauphine, France. JCPDS 6-0448.
6. 28(5) 3. 48(9) 3. 16(8) 2. 81(10) 2. 17(7)
- 063 AZOPROITE Transbaykalia, U. S. S. R. Amer.
Mineral., 56, p. 360.
5. 13(5) 2. 53(10) 2. 11(4) 2. 02(5) 1. 90(4)
- 064 AZURITE Bisbee, Arizona. JCPDS 11-0682.
5. 13(8) 3. 66(4) 3. 53(10) 2. 53(6) 2. 22(3)
- 065 BABINGTONITE Baveno, Italy. JCPDS 14-0321.
3. 12(7) 2. 95(6) 2. 88(8) 2. 75(10) 2. 47(5)
- 066 BADDELEYITE Minas Gerais, Brazil.
JCPDS 13-0307.
3. 69(4) 3. 16(10) 2. 83(8) 2. 61(6) 1. 82(7)
- 067 BAFERTISITE Northern China. JCPDS 14-0541.
2. 64(10) 2. 51(6) 2. 06(3) 1. 76(3) 1. 56(8)
- 068 BAKERITE California. JCPDS 14-0686.
3. 76(6) 3. 11(10) 2. 85(9) 2. 51(5) 2. 24(6)
- 069 BANDYLITE Chile. JCPDS 12-0631.
5. 57(10) 4. 36(7) 3. 09(7) 2. 54(10) 1. 96(8)
- 070 BAOTITE Inner Mongolia. JCPDS 14-0657.
3. 51(6) 3. 14(10) 2. 49(9) 2. 24(10) 1. 33(10)
- 071 BARBOSALITE Custer County, South Dakota.
JCPDS 11-0423.
4. 85(6) 3. 35(10) 3. 25(5) 3. 17(5) 2. 33(4)
Iron radiation.
- 072 BARITE Custer County. South Dakota.
JCPDS 5-0448.
3. 90(6) 3. 43(9) 3. 32(7) 3. 10(9) 2. 12(10)
- 073 BARYLITE Seal Lake, Labrador. JCPDS 15-0076.
5. 82(6) 4. 51(6) 3. 38(10) 3. 05(7) 2. 92(9)
- 074 BARYTOCALCITE Alston Moor. England.
JCPDS 15-0285.
4. 34(6) 4. 00(7) 3. 13(10) 2. 38(6) 2. 16(6)
- 075 BASALUMINITE Newhaven, Sussex, England.
JCPDS 8-0064.
5. 91(6) 4. 70(10) 3. 88(6) 3. 68(8) 1. 88(7)
- 076 BASSANITE Stassfurt, Germany. JCPDS 14-0453.
6. 01(9) 3. 50(10) 3. 00(10) 2. 81(10) 1. 85(8)
- 077 BASSETITE Cornwall, England. JCPDS 7-0288.
8. 51(6) 4. 88(10) 3. 46(10) 2. 96(5) 2. 22(6)
- 078 BASTNAESITE El Paso, Colorado.
JCPDS 11-0340.
4. 85(5) 3. 53(6) 2. 86(10) 2. 04(5) 1. 91(6)
- 079 BAUMHAUERITE Binnental, Switzerland.
JCPDS 12-0281.
4. 15(10) 3. 58(8) 3. 46(8) 2. 96(8) 2. 76(8)
- 080 BAVENITE Sumperk, Czechoslovakia.
JCPDS 13-0535.
3. 72(9) 3. 35(10) 3. 23(7) 3. 03(8) 2. 57(8)
- 081 BAYLDONITE Cornwall, England.
JCPDS 6-0335.
4. 55(6) 3. 22(7) 3. 15(10) 2. 94(7) 2. 71(7)
- 082 BAYLEYITE U. S. G. S. specimen. JCPDS 4-0130.
7. 63(10) 5. 04(9) 3. 83(8) 2. 88(5) 2. 70(5)
- 083 BEAVERITE Beaver County, Utah.
JCPDS 17-0476
5. 87(10) 3. 60(4) 3. 05(10) 2. 29(4) 1. 95(4)
- 084 BECQUERELITE Delta Mine, Utah.
JCPDS 13-0405.
7. 44(10) 3. 73(5) 3. 55(5) 3. 21(8) 2. 58(3)
- 085 BENITOITE San Benito County, California.
JCPDS 13-0500.
3. 72(10) 3. 31(4) 2. 87(4) 2. 74(9) 1. 96(3)
- 086 BENSTONITE Minerva Mine, Illinois.
JCPDS 14-0637
3. 92(4) 3. 09(10) 2. 53(3) 2. 13(3) 1. 90(3)
- 087 BERAUNITE Waldgrimes, Germany.
JCPDS 17-0472.
10. 3(10) 7. 20(4) 4. 80(4) 3. 44(4) 3. 07(6)
- 088 BERMANITE Custer County, South Dakota.
JCPDS 20-0712.
9. 61(10) 4. 82(3) 3. 66(2) 3. 27(3) 2. 91(4)

- 089 BERTHIERITE Yellowknife, Northwest Territories. JCPDS 12-0731.
7.08(4) 4.37(6) 3.68(10) 3.02(5) 2.64(10)
- 090 BERTRANDITE Acquachila Mountains, Mexico. JCPDS 17-0515.
4.37(10) 3.18(9) 2.54(8) 2.28(6) 2.22(6)
- 091 BERYL Coolgardie, Australia. JCPDS 9-0430.
7.97(10) 4.60(5) 3.25(10) 3.02(5) 2.87(10)
- 092 BERYLLONITE Stoneham, Maine. JCPDS 6-0443.
3.92(6) 3.65(9) 2.84(10) 2.37(6) 2.28(7)
- 093 BERZELIANITE British Columbia. JCPDS 6-0680.
3.34(9) 2.04(10) 1.74(8) 1.43(4) 1.17(7)
- 094 BERZELIITE Langban, Sweden. JCPDS 19-0165.
3.10(6) 2.78(10) 2.54(6) 1.72(7) 1.65(8)
- 095 BETAFITE Fort Portal Tuffs, Uganda. JCPDS 13-0197.
2.99(10) 2.61(4) 1.82(7) 1.57(7) 1.50(2)
- 096 BETA-ROSELITE Morocco. JCPDS 17-0166.
5.10(7) 3.58(7) 3.07(8) 2.77(10) 1.72(8)
- 097 BETA-URANOPHANE Several localities. JCPDS 8-0301.
7.83(10) 3.87(6) 3.52(6) 3.19(6) 2.57(4)
- 098 BETEKHTINITE Dzhhezkazgan, Kazakhstan, U. S. S. R. JCPDS 13-0235.
3.09(8) 2.87(10) 2.40(5) 1.94(5) 1.83(9)
- 099 BEUDANTITE Cerro Gorda, California. JCPDS 19-0689.
5.99(8) 3.66(7) 3.08(10) 2.26(7) 1.98(7)
- 100 BIEBERTITE Synthetic. JCPDS 16-0487.
4.85(10) 4.77(8) 4.02(3) 3.75(8) 3.24(2)
- 101 BIKITAITE Southern Rhodesia. JCPDS 14-0168.
7.86(7) 4.20(10) 3.46(10) 3.35(10) 2.49(9)
- 102 BILLIETITE Katanga, Belgian Congo. JCPDS 13-0406.
7.44(10) 3.50(8) 3.18(10) 2.56(4) 2.04(5)
- 103 BINDHEIMITE Bodannon Mine, Cornwall, England. JCPDS 7-0321.
3.03(10) 2.62(6) 1.86(8) 1.58(8) 1.20(4)
- 104 BISMITE Synthetic. JCPDS 14-0699.
3.25(10) 2.69(7) 1.96(3) 1.74(1) 1.67(2)
- 105 BISMUTH Tough Oaks Mine, Porcupine, Ontario. JCPDS 5-0519.
3.28(10) 2.37(4) 2.27(5) 1.87(4) 1.44(4)
- 106 BISMUTHINITE Little Shuswap Lake, British Columbia. JCPDS 17-0320.
3.97(6) 3.56(10) 3.12(8) 2.52(7) 1.95(6)
- 107 BISMUTITE Tasna, Bolivia. JCPDS 4-0666.
3.72(8) 2.96(10) 2.14(7) 1.95(7) 1.62(8)
- 108 BIXBYITE Mexico. JCPDS 8-0010.
3.83(4) 2.72(10) 2.35(4) 1.66(9) 1.42(8)
- 109 BLOEDITE Chuquicamata, Chile. JCPDS 19-1215.
4.56(9) 3.19(10) 2.97(4) 2.73(4) 2.65(4)
- 110 BLOMSTRANDINE Kabuland, Iveland, Stesdalen, Norway. Makarochkin, B. A., Gonibessova, K. A. and Makarochkina, M. S. (1964): Proc. All. Sov. Min. Soc., 93, 1, p. 55.
2.97(10) 2.59(4) 1.82(4) 1.80(4) 1.56(4)
- 111 BOEHMITE Georgia, U.S.A. JCPDS 21-1307.
6.11(10) 3.16(7) 2.36(7) 1.85(7) 1.32(2)
- 112 BOGGILDITE Ivigtut, South Greenland. JCPDS 14-0417.
3.90(8) 3.16(10) 2.88(5) 2.63(7) 2.28(8)
- 113 BOLEITE Boleo, Mexico. JCPDS 2-0240.
4.42(10) 3.83(9) 2.79(9) 2.38(8) 2.32(8)
- 114 BOLTWOODITE Delta Mine, Emery County, Utah. JCPDS 13-0218.
6.81(10) 3.54(7) 3.40(7) 2.95(8) 1.90(6)
- 115 BONATTITE Lilloet, British Columbia. JCPDS 3-0194.
5.14(9) 4.45(10) 3.65(8) 3.25(7) 2.83(7)
- 116 BONCHEVITE Smolyanski, Bulgaria. Kostov, I. (1958): Min. Mag., 31, p. 821.
3.51(10) 3.09(8) 2.79(6) 1.93(8) 1.72(6)
- 117 BORACITE Luneburg, Hanover, Germany. JCPDS 5-0710.
3.52(6) 3.04(9) 2.72(7) 2.14(4) 2.06(10)
- 118 BORNITE Bruce Mines, Ontario. JCPDS 14-0323.
3.30(5) 3.18(6) 2.74(6) 2.50(4) 1.94(10)
- 119 BOTRYOGEN Old Redington Mine, Napa County, California. JCPDS 17-0157.
8.90(10) 6.30(6) 5.10(5) 4.08(5) 3.02(8)
- 120 BOULANGERITE Vermont Creek, British Columbia. JCPDS 18-0688.
3.73(10) 3.22(6) 3.03(5) 2.81(9) 1.87(5)
- 121 BOURNONITE Felsobanga, Hungary. JCPDS 12-0094.
3.84(8) 2.73(10) 1.99(4) 1.85(4) 1.77(8)
- 122 BOUSSINGAULTITE Sonora County, California. JCPDS 17-0135.
5.37(6) 5.11(4) 4.22(10) 3.80(7) 2.19(4)
- 123 BRACKEBUSCHITE Venus Mine, Cordoba, Argentina. JCPDS 6-0284.
4.94(8) 3.25(10) 3.08(6) 2.76(8) 2.13(5)

- 124 BRANDTITE Pojsberg, Sweden. JCPDS 11-0677.
5. 04(5) 3. 36(6) 2. 98(10) 2. 77(9) 2. 09(6)
- 125 BRANNERITE U. S. G. S. Specimen No 221.
JCPDS 8-0002
4. 70(7) 3. 42(10) 2. 46(7) 2. 28(7) 1. 90(8)
Mount not available.
- 126 BRAUNITE Wheatley River, Prince Edward Is-
land. JCPDS 8-0078.
2. 72(10) 2. 35(4) 2. 15(4) 1. 66(7) 1. 42(6)
- 127 BRAZILIANITE Brazil. JCPDS 14-0379.
5. 05(10) 2. 99(8) 2. 88(7) 2. 74(7) 2. 69(8)
- 128 BREITHAAPTITE Cobalt, Ontario. JCPDS 2-0783.
2. 85(10) 2. 05(7) 1. 97(8) 1. 62(2) 1. 42(2)
- 129 BREWSTERITE Strontian, Argyll, Scotland.
JCPDS 15-0582.
6. 30(4) 4. 65(10) 3. 93(3) 3. 27(4) 2. 92(9)
- 130 BRITHOLITE Oka, Quebec. JCPDS 17-0724.
3. 22(3) 2. 82(10) 1. 96(5) 1. 88(5) 1. 48(2)
- 131 BROCHANTITE Chuquicamata, Chile.
JCPDS 3-0282.
6. 40(6) 5. 40(6) 3. 91(10) 2. 69(5) 2. 53(9)
- 132 BROCKITE Custer County, Colorado.
JCPDS 15-0248.
4. 37(8) 3. 03(10) 2. 83(9) 2. 15(8) 1. 86(5)
- 133 BROMELLITE Synthetic. JCPDS 4-0843.
2. 34(9) 2. 19(6) 2. 06(10) 1. 35(4) 1. 24(3)
- 134 BROMYRITE Zakatecas, Mexico. JCPDS 6-0438.
2. 87(10) 2. 02(9) 1. 65(3) 1. 43(1) 1. 28(3)
- 135 BROOKITE Magnet Cove, Arkansas.
JCPDS 16-0617.
3. 51(10) 3. 47(8) 2. 90(9) 1. 89(3) 1. 67(3)
- 136 BRUCITE Wakefield Township, Quebec.
JCPDS 7-0239.
4. 77(9) 2. 37(10) 1. 80(6) 1. 57(4) 1. 38(3)
- 137 BRUGNATELLITE Lombardy, Italy.
JCPDS 14-0365.
7. 90(10) 3. 96(9) 2. 63(6) 2. 35(7) 2. 00(7)
- 138 BRUSHITE Brussels, Belgium. JCPDS 11-0293.
7. 57(10) 4. 24(10) 3. 05(8) 2. 93(4) 2. 62(5)
- 139 BUETSCHLIITE Desoronto, Ontario.
JCPDS 21-0980.
3. 03(8) 2. 87(10) 2. 69(8) 2. 25(6) 2. 07(8)
- 140 BUNSENITE Synthetic. JCPDS 4-0835.
2. 41(9) 2. 09(10) 1. 48(9) 1. 26(3) 1. 21(3)
- 141 BURBANKITE Kola Peninsula, U. S. S. R.
JCPDS 6-0513.
5. 26(5) 3. 72(5) 3. 03(6) 2. 63(10) 2. 14(5)
- 142 BURKEITE Searles Lake, California.
JCPDS 2-0840.
3. 80(8) 3. 52(7) 2. 78(10) 2. 64(7) 2. 58(7)
- 143 BUSTAMITE Franklin, New Jersey.
JCPDS 13-0175.
3. 20(7) 3. 00(6) 2. 89(10) 1. 77(4) 1. 66(5)
- 144 BUTTGENBACHITE Likasi, Katanga.
JCPDS 8-0136.
7. 95(10) 3. 27(7) 2. 74(9) 2. 29(10) 1. 62(8)
- 145 BYSTROMITE El Antimonio, Mexico. Mason, B.
and Vitaliano, C.J. (1952): Amer.
Mineral., 37, p. 53.
3. 31(10) 2. 57(9) 2. 34(5) 1. 73 (9) 1. 39(8)
- 146 CACOXENITE Oberrosbach, Hesse, Germany.
Fisher, D.J. (1966): Amer. Mineral.,
51, p. 1811.
13. 60(1) 11. 95(10) 6. 93(3) 4. 90(3) 3. 16(3)
- 147 CALAVERITE Cripple Creek, Colorado.
JCPDS 7-0344.
3. 01(10) 2. 93(4) 2. 10(8) 1. 32(4) 1. 20(4)
- 148 CALCIOVOLBORTHITE Grand County, Utah.
JCPDS 12-0524.
5. 79(4) 4. 15(6) 2. 88(8) 2. 60(10) 1. 61(7)
- 149 CALCITE Partridge Island, Nova Scotia.
JCPDS 5-0586
3. 05(10) 2. 28(5) 2. 09(5) 1. 91(6) 1. 87(6)
- 150 CALEDONITE Mariposa County, Arizona.
JCPDS 8-0153.
4. 62(10) 3. 13(8) 1. 87(8) 1. 69(7) 1. 64(6)
- 151 CALLAGHANITE Gabbs, Nevada. JCPDS 11-0332.
7. 44(10) 6. 19(10) 3. 87(9) 3. 18(10) 2. 30(9)
- 152 CALOMEL Yellowstone Park, Wyoming.
JCPDS 4-0581.
4. 14(10) 3. 16(9) 2. 73(3) 2. 06(6) 1. 96(6)
- 153 CALUMETITE Calumet Mine, Michigan.
JCPDS 15-0669.
7. 50(10) 3. 43(3) 3. 30(3) 3. 02(6) 2. 49(8)
- 154 CANCRINITE French River, Ontario.
JCPDS 20-0257.
6. 33(6) 4. 64(9) 3. 22(10) 2. 73(6) 2. 56(6)
- 155 CARBONATE-CYANOTRICHITE California.
JCPDS 16-0365.
10. 16(9) 5. 64(5) 5. 01(6) 4. 21(10) 3. 36(4)
- 156 CARMINITE Mapimi, Mexico. JCPDS 12-0278.
4. 58(7) 3. 50(7) 3. 21(10) 2. 58(9) 1. 80(8)
- 157 CARNALLITE Stassfurt, Germany. JCPDS 8-0075.
4. 70(7) 3. 56(6) 3. 30(10) 2. 93(7) 1. 99(5)

- 158 CARNOTITE U. S. G. S. Specimen No. 1183.
JCPDS 8-0317.
6. 51(10) 4. 25(3) 3. 52(6) 3. 25(3) 3. 12(9)
- 159 CARPHOLITE Schlackenwald, Bohemia.
JCPDS 19-0273.
5. 73(10) 5. 08(5) 3. 41(3) 3. 05(6) 2. 62(10)
- 160 CARROLLITE Ruwe, Katanga. JCPDS 9-0425.
3. 35(5) 2. 86(10) 2. 37(6) 1. 83(6) 1. 67(9)
- 161 CASSITERITE Nova Scotia. JCPDS 21-1250.
3. 36(10) 2. 64(10) 2. 37(2) 1. 77(10) 1. 67(2)
- 162 CATAPLEHITE Langesundfiord, Norway.
JCPDS 14-0297.
6. 37(6) 3. 94(10) 3. 05(10) 2. 96(10) 2. 69(10)
- 163 CATTIERITE Shinkalobwe, Katanga.
JCPDS 3-0772.
2. 75(10) 2. 47(6) 2. 25(6) 1. 95(6) 1. 66(10)
- 164 CAVANSITE Goble, Columbia County, Oregon.
Staaes, L. W., Evans, H. T. Jr. and
Lindsay, F. R. (1967): Geol. Soc.
Amer., Prog. Ann. Meet. 1967,
p. 211-212.
7. 97(10) 6. 86(5) 3. 41(6) 3. 05(4) 2. 77(5)
- 165 CELADONITE Victoria Island, Northwest Ter-
ritories. JCPDS 17-0521.
4. 55(8) 3. 64(8) 3. 32(8) 2. 58(10) 2. 40(8)
- 166 CELESTITE Lansdowne, Ontario. JCPDS 5-0593.
3. 29(9) 2. 97(10) 2. 73(6) 2. 04(6) 2. 00(6)
- 167 CERARGYRITE Charnarcillo, Chile.
JCPDS 6-0480.
3. 21(6) 2. 78(10) 1. 96(9) 1. 67(2) 1. 60(2)
- 168 CERIANITE Lackner Township, Ontario.
JCPDS 4-0593.
3. 12(10) 2. 71(3) 1. 91(5) 1. 63(5) 1. 24(2)
- 169 CERITE Bastnaes, Sweden. JCPDS 11-0126.
3. 48(6) 3. 31(6) 2. 95(10) 1. 95(7) 1. 74(7)
- 170 CERUSSITE Mammoth, Arizona. JCPDS 5-0417.
3. 59(10) 3. 50(6) 2. 49(5) 2. 08(5) 1. 93(4)
- 171 CHABAZITE Aussig, Bohemia. JCPDS 19-0208.
5. 02(3) 4. 32(8) 3. 58(3) 2. 95(10) 1. 81(3)
- 172 CHALCANTHITE Lilloet, British Columbia.
JCPDS 11-0646.
4. 73(10) 3. 99(9) 3. 71(9) 3. 30(6) 2. 76(5)
- 173 CHALCOALUMITE Bisbee, Arizona.
JCPDS 8-0142.
8. 59(10) 4. 29(10) 2. 51(3) 2. 29(3) 2. 00(5)
- 174 CHALCOCITE Megantic, Quebec. JCPDS 9-0328.
3. 39(3) 2. 40(7) 1. 96(9) 1. 87(10) 1. 69(4)
- 175 CHALCOMENITE Locality unknown.
JCPDS 17-0523.
5. 39(10) 4. 94(10) 3. 77(7) 3. 35(8) 3. 04(7)
- 176 CHALCOPHANITE Broken Hill, Australia.
JCPDS 15-0807
6. 96(10) 4. 08(5) 3. 49(5) 2. 23(5) 1. 60(4)
- 177 CHALCOPHYLLITE Pershing County, Nevada.
JCPDS 19-0379.
9. 41(10) 4. 75(10) 2. 59(9) 2. 34(8) 2. 05(7)
- 178 CHALCOPYRITE Siegerland, Germany.
JCPDS 11-0515.
3. 06(10) 1. 86(8) 1. 59(6) 1. 33(3) 1. 22(5)
- 179 CHALCOSIDERITE Cornwall, England.
JCPDS 8-0127.
3. 77(10) 3. 56(4) 3. 39(7) 3. 01(7) 2. 96(4)
- 180 CHALCOSTIBITE Moctezuma, Sonora, Mexico.
JCPDS 9-0143.
3. 13(10) 3. 00(10) 2. 31(4) 1. 83(5) 1. 76(5)
- 181 CHAMBERSITE Chambers County, Texas.
JCPDS 14-0638.
3. 07(10) 2. 74(6) 2. 17(6) 2. 08(6) 1. 85(5)
- 182 CHAMOSITE Bancroft, Ontario. JCPDS 7-0329.
7. 08(10) 4. 65(6) 3. 55(10) 2. 46(7) 1. 55(8)
- 183 CHAPMANITE South Lorrain Township, Ontario.
JCPDS 11-0135.
7. 63(9) 3. 88(9) 3. 58(10) 3. 19(9) 2. 59(9)
- 184 CHERVETITE Gabon, Africa. JCPDS 18-0708.
4. 93(5) 3. 58(5) 3. 44(10) 3. 21(8) 2. 73(6)
- 185 CHILDRENITE Tavistock, Devonshire, England.
JCPDS 11-0621.
5. 25(4) 4. 40(3) 2. 81(10) 2. 42(4) 1. 52(4)
- 186 CHIOLITE Ivigtut, Greenland. JCPDS 2-0749.
5. 18(8) 2. 91(10) 2. 32(9) 2. 00(7) 1. 55(7)
- 187 CHKALOVITE Louvzero, U. S. S. R.
JCPDS 16-0387.
4. 02(10) 3. 29(8) 2. 77(8) 2. 48(10) 1. 80(8)
- 188 CHLORAPATITE Locality unknown. JCPDS 2-0851.
2. 85(9) 2. 77(10) 2. 32(3) 1. 95(5) 1. 84(5)
- CHLORITE GROUP
- 189 CLINOCHLORE Chester County, Pennsylvania.
JCPDS 19-0749.
7. 11(10) 3. 55(9) 2. 55(8) 2. 01(7) 1. 53(7)

- 190 COOKEITE Wait-a-bit Creek, British Columbia.
JCPDS 16-0363.
Specimen mount not available.
7.08(7) 4.70(9) 3.53(9) 2.50(7) 2.32(10)
- 191 CHLORITOID Annapolis County, Nova Scotia.
JCPDS 14-0062.
4.44(10) 2.95(3) 2.36(4) 2.29(4) 1.58(3)
- 192 CHONDRODITE Franklin Furnace, New Jersey.
JCPDS 14-0010.
4.86(4) 3.01(5) 2.26(10) 1.74(10) 1.48(8)
- 193 CHROMITE Mount Albert, Quebec. JCPDS 3-0873.
2.94(7) 2.52(10) 2.07(7) 1.60(9) 1.46(9)
- 194 CHRYSOBERYL Ural Mountains, U. S. S. R.
JCPDS 11-0448.
4.02(3) 3.24(5) 2.56(5) 2.09(10) 1.62(9)
- 195 CHRYSOCOLLA Chile. JCPDS 11-0322.
4.44(3) 2.92(8) 2.49(6) 1.64(6) 1.49(10)
- 196 CHURCHITE Auerbach, Bavaria. JCPDS 8-0167.
7.44(8) 4.70(6) 4.21(10) 3.02(9) 2.82(7)
- 197 CINNABAR Almaden, California. JCPDS 6-0256.
3.35(10) 3.16(3) 2.86(10) 1.98(4) 1.68(4)
- 198 CLAUDETITE Portugal. JCPDS 15-0778.
4.92(4) 3.44(5) 3.25(10) 2.77(4) 2.25(4)
- 199 CLARKEITE U. S. G. S. specimen. JCPDS 8-0315.
5.79(8) 3.34(5) 3.18(10) 2.69(5) 2.01(6)
Mount not available.
- 200 CLAUSTHALITE Theano Point, Lake Superior.
JCPDS 6-0354.
3.54(4) 3.06(10) 2.17(8) 1.77(4) 1.37(4)
- 201 CLINOCLASE Eureka Hill Mine, Utah.
JCPDS 12-0297.
6.15(3) 4.35(5) 3.59(10) 3.14(7) 2.47(3)
- 202 CLINOHUMITE Valhalla, British Columbia.
JCPDS 14-0009
3.70(5) 2.76(7) 2.54(6) 2.26(10) 1.74(10)
- 203 CLINOZOISITE Straw Hat Lake, Ontario.
JCPDS 21-0128.
2.89(10) 2.68(6) 2.40(6) 1.87(6) 1.64(6)
- 204 COALINGITE Fresno County, California.
JCPDS 18-0790.
4.25(7) 2.35(10) 1.77(6) 1.57(5) 1.34(4)
- 205 COBALTITE Cobalt, Ontario. JCPDS 18-0431.
2.78(8) 2.49(10) 2.27(9) 1.68(10) 1.49(8)
- 206 COESITE Canyon Diablo, Arizona.
JCPDS 14-0654.
3.43(4) 3.09(10) 1.71(2) 1.54(1) 1.34(2)
- 207 COFFINITE Homestake Mine, New Mexico.
JCPDS 8-0304.
4.66(10) 3.47(10) 2.78(4) 2.64(9) 1.80(8)
- 208 COLEMANITE Death Valley, California.
JCPDS 6-0331.
5.64(9) 3.85(8) 3.13(10) 2.55(8) 2.01(7)
- 209 COLLINSITE Francois Lake, British Columbia.
JCPDS 14-0314.
6.30(3) 3.14(5) 3.04(9) 2.69(10) 1.67(6)
- 210 COLORADOITE Kalgoorlie, Western Australia.
JCPDS 8-0026.
3.74(10) 2.29(9) 1.95(8) 1.48(3) 1.32(4)
- 211 COLUMBITE-TANTALITE Ingersol Mine, South
Dakota. JCPDS 16-0337.
3.66(5) 2.96(10) 2.51(3) 1.72(5) 1.46(5)
- 212 COLUSITE Butte, Montana. JCPDS 9-0010.
3.07(10) 1.88(10) 1.61(6) 1.32(2) 1.22(3)
- 213 CONICALCITE Chile. JCPDS 11-0306.
3.13(9) 2.84(10) 2.59(9) 2.55(5) 1.60(4)
- 214 CONNELLITE Vancouver Island, British Colum-
bia. JCPDS 8-0135.
7.97(10) 3.24(9) 2.74(9) 2.50(7) 2.28(10)
- 215 COPIAPITE Copiapo, Chile. JCPDS 20-0659.
9.21(10) 6.17(6) 5.57(8) 4.70(3) 3.53(6)
- 216 COPPER Calumet Mine, Michigan.
JCPDS 4-0836.
2.09(10) 1.81(6) 1.28(5) 1.09(4) 1.04(2)
- 217 COQUIMBITE Bisbee, Arizona. JCPDS 6-0040.
8.27(10) 5.44(7) 4.60(5) 3.36(6) 2.76(8)
- 218 CORDIERITE Sandokedal, Norway. JCPDS 9-0472.
8.51(9) 4.10(9) 3.38(10) 3.16(9) 3.03(10)
- 219 CORNETITE Kalabi, Katanga. JCPDS 9-0495.
4.29(9) 3.68(8) 3.16(9) 3.04(10) 2.06(8)
- 220 CORNWALLITE Tintic District, Utah.
JCPDS 12-0287.
4.60(8) 3.55(9) 3.22(10) 3.10(9) 2.41(9)
- 221 CORONADITE Bhandara District, India.
JCPDS 7-0361.
3.48(5) 3.10(10) 2.40(5) 1.83(4) 1.54(5)
- 222 CORUNDUM Bathurst, New Brunswick.
JCPDS 10-0173.
3.49(8) 2.55(9) 2.09(10) 1.60(9) 1.37(7)
- 223 CORYNITE Olsa, Carinthia, Austria.
JCPDS 9-0336.
2.88(6) 2.57(10) 2.34(7) 1.74(8) 1.54(5)

- 224 COSALITE Timiskaming, Ontario. JCPDS 13-0502.
3.44(10) 3.37(5) 2.95(10) 2.81(5) 2.03(7)
- 225 COTUNNITE Vesuvius, Italy. JCPDS 5-0416.
3.89(8) 3.59(10) 2.78(7) 2.51(5) 2.10(5)
- 226 COVELLITE Miramichi River, New Brunswick.
JCPDS 6-0464.
3.05(7) 2.81(10) 2.72(8) 1.90(9) 1.73(5)
- 227 CRANDALLITE Amatrice Hill, Utah.
JCPDS 5-0615.
3.50(4) 2.94(10) 2.16(5) 1.90(5) 1.75(5)
- 228 CREDNERITE Idikil, Morocco. JCPDS 18-0448.
2.85(7) 2.71(10) 2.42(10) 2.24(7) 1.56(7)
- 229 CREEDITE Wagon Wheel Gap, Colorado.
JCPDS 8-0072.
5.79(8) 3.92(9) 3.48(10) 3.07(8) 2.16(9)
- 230 CRISTOBALITE (alpha) Tucson Springs, California. JCPDS 11-0695.
4.05(10) 2.84(1) 2.49(2) 1.93(1) 1.87(1)
- 231 CROCOITE Dundas, Tasmania. JCPDS 8-0209.
4.38(4) 3.49(6) 3.28(10) 3.03(7) 2.25(4)
- 232 CROOKESITE Skrikerum, Sweden. JCPDS 6-0280.
3.30(9) 3.02(10) 2.60(9) 2.11(7) 1.84(7)
- 233 CRYOLITE Ivigtut, Greenland. JCPDS 12-0257.
3.90(6) 2.75(9) 2.34(5) 1.95(10) 1.57(5)
- 234 CRYOLITHIONITE Ivigtut, Greenland.
JCPDS 2-1282.
4.29(10) 3.03(6) 2.22(8) 1.96(10) 1.62(5)
- 235 CRYPTOMELANE Virginia. JCPDS 4-0778.
7.00(8) 4.90(6) 3.12(7) 2.40(10) 1.83(5)
Mount not available. Iron radiation.
- 236 CUBANITE Northwest Territories. JCPDS 9-0324.
3.49(5) 3.22(10) 2.77(5) 1.87(9) 1.75(7)
- 237 CUMENGÉITE Boleo, Mexico. JCPDS 14-0186.
7.02(4) 4.86(9) 3.98(4) 3.73(6) 2.38(10)
- 238 CUPRITE Bisbee, Arizona. JCPDS 5-0667.
3.02(2) 2.47(10) 2.14(5) 1.51(5) 1.29(5)
- 239 CUPROSKLODOWSKITE Katanga. JCPDS 8-0290.
8.18(10) 6.10(6) 4.82(7) 4.10(10) 2.97(8)
- 240 CURITE Belgian Congo. JCPDS 14-0267.
6.23(10) 3.96(7) 3.53(7) 3.14(8) 3.06(7)
- 241 CYANOCHROITE Mount Vesuvius, Italy.
JCPDS 17-0137
4.21(8) 4.09(8) 3.70(10) 2.98(4) 2.83(4)
- 242 CYANOTRICHITE Washington County, Utah.
JCPDS 11-0131.
10.16(10) 5.57(6) 5.27(6) 3.88(9) 3.38(6)
- 243 CYLINDRITE Poopo, , Bolivia. JCPDS 13-0332.
5.75(4) 3.90(10) 2.89(10) 2.05(5) 1.81(5)
- 244 CYMRITE Whitehorse, Yukon. JCPDS 17-0507.
3.97(9) 2.96(10) 2.67(7) 2.24(4) 2.21(4)
- 245 DADSONITE Madoc, Ontario. JCPDS 21-0942.
3.78(7) 3.62(7) 3.38(10) 2.84(7) 2.79(6)
- 246 DANALITE Ungava District, Quebec. Marmo,
V. (1966): Bull Comm. Geol.
Finlande, 221, p. 19.
3.35(10) 2.59(10) 2.19(4) 1.92(6) 1.68(4)
- 247 DANBURITE Lewis County, New York.
JCPDS 13-0308.
3.56(10) 3.44(6) 2.96(8) 2.74(9) 2.65(7)
- 248 DATOLITE Bergin Hill, New Jersey.
JCPDS 11-0070.
3.75(6) 3.11(10) 2.99(5) 2.86(7) 2.19(5)
- 249 DAVIDITE East Africa. JCPDS 5-0623.
2.86(10) 1.80(8) 1.71(8) 1.60(9) 1.44(9)
- 250 DAVYNE Mount Vesuvius, Italy.
JCPDS 20-0379.
4.80(10) 3.68(10) 3.28(10) 2.67(7) 2.12(6)
- 251 DAWSONITE Montreal, Quebec. JCPDS 19-1175.
5.66(10) 3.38(4) 2.79(8) 2.60(4) 1.99(5)
- 252 DELAFOSSITE Bisbee, Arizona. JCPDS 12-0752.
2.86(4) 2.51(10) 2.24(4) 1.66(4) 1.51(4)
- 253 DELHAYELITE Kola Peninsula, U. S. S. R.
JCPDS 12-0286.
6.15(3) 3.48(5) 3.08(10) 2.95(7) 2.79(5)
- 254 DESCLOIZITE Lake Valley, New Mexico.
JCPDS 12-0537.
5.10(8) 3.23(10) 2.90(8) 2.69(8) 2.62(8)
- 255 DESTINEZITE Argenteau, Belgium.
JCPDS 12-0209
8.35(9) 4.35(10) 3.91(10) 3.23(4) 2.92(10)
- 256 DEVILLINE Herrengrund, Hungary.
JCPDS 22-0231.
5.08(10) 3.39(9) 3.17(3) 2.66(5) 2.51(6)
- 257 DIABOLEITE Mammoth Mine, Arizona.
JCPDS 5-0220.
5.51(9) 3.31(10) 2.93(7) 2.29(9) 1.76(7)
- 258 DIAMOND JCPDS 6-0675.
2.06(10) 1.26(3) 1.08(2) 0.89(1) 0.82(2)

- 259 DIAPHORITE Příbram, Bohemia. JCPDS 9-0126.
3. 31(10) 2. 95(4) 2. 81(9) 2. 03(4) 1. 71(2)
- 260 DIASPORE Chester, Massachusetts. JCPDS 5-0355.
3. 99(10) 2. 32(6) 2. 13(5) 2. 08(5) 1. 63(5)
- 261 DICKITE Ouray, Colorado. JCPDS 10-0446.
7. 14(10) 4. 13(5) 3. 58(10) 2. 33(9) 1. 65(5)
- 262 DIGENITE Katanga. JCPDS 9-0064.
3. 21(4) 3. 03(1) 2. 79(4) 1. 97(10) 1. 68(4)
- 263 DIOPTASE Kirgese Steppes, Siberia, U. S. S. R.
JCPDS 7-0172.
7. 31(9) 4. 89(8) 2. 71(6) 2. 60(10) 2. 12(7)
- 264 DOLOMITE Locality unknown. JCPDS 11-0078.
2. 88(10) 2. 19(5) 2. 01(3) 1. 80(4) 1. 79(5)
- 265 DOLOMITE, FERROAN Black Tunnel, Pennsylvania. JCPDS 12-0088.
2. 91(10) 2. 42(2) 2. 21(3) 2. 03(2) 1. 81(3)
Mount not available.
- 266 DOMEYKITE Mohawk Mine, Michigan.
JCPDS 9-0333.
2. 15(4) 2. 05(10) 1. 97(5) 1. 89(7) 1. 31(4)
- 267 DRESSERITE Montreal, Quebec. JCPDS 20-0617.
8. 09(10) 6. 23(6) 3. 66(5) 3. 17(3) 2. 73(4)
- 268 DUFRENITE Ullersreuth, Germany. JCPDS 8-0155.
5. 05(9) 3. 42(9) 3. 23(8) 3. 17(10) 2. 11(7)
- 269 DUFRENOYSITE Switzerland. JCPDS 10-0453.
3. 74(10) 3. 20(7) 3. 00(10) 2. 70(8) 2. 36(7)
- 270 DUMORTIERITE Addington County, Ontario.
JCPDS 12-0270.
5. 85(10) 5. 07(8) 3. 45(8) 3. 22(8) 2. 09(9)
- 271 DUNDASITE Dundas, Tasmania, Australia.
JCPDS 21-0936.
7. 91(10) 4. 63(5) 3. 60(8) 3. 23(5) 3. 09(6)
- 272 EGLESTONITE California. JCPDS 16-0618.
4. 02(4) 3. 28(10) 2. 54(6) 1. 89(9) 1. 71(3)
- 273 ELPIDITE Narsarsuk, Greenland.
JCPDS 13-0104.
3. 26(10) 3. 13(7) 2. 96(5) 2. 55(5) 1. 94(5)
- 274 EMBOLITE Broken Hill Australia.
JCPDS 14-0255.
3. 25(6) 2. 82(10) 1. 99(8) 1. 63(4) 1. 26(4)
- 275 EMPLECTITE Tannenbaum, Saxony, Germany.
JCPDS 10-0474.
7. 31(4) 3. 23(9) 3. 13(8) 3. 05(10) 2. 17(4)
- 276 ENARGITE Butte, Montana. JCPDS 10-0436.
3. 23(10) 2. 87(9) 1. 86(9) 1. 73(7) 1. 59(5)
- 277 ENGLISHITE Fairfield, Utah. JCPDS 2-0063.
9. 21(10) 3. 90(4) 2. 86(7) 2. 73(6) 1. 72(6)
- 278 EPIDIDYMITE Narsarsuk, Greenland.
JCPDS 14-0064.
3. 66(7) 3. 40(9) 3. 09(10) 2. 99(9) 1. 80(7)
- 279 EPIDOTE Tyrol, Austria. JCPDS 17-0514.
4. 02(5) 2. 90(10) 2. 68(7) 2. 60(5) 2. 40(5)
- 280 EPISTILBITE Grand Manan Island, New Brunswick. JCPDS 19-0213.
4. 90(8) 3. 83(10) 3. 47(10) 3. 21(9) 2. 88(8)
- 281 EPISTOLITE Kangerdluarsuk, Greenland.
JCPDS 14-0258.
6. 11(10) 4. 33(10) 2. 97(6) 2. 87(6) 2. 72(8)
- 282 EPSOMITE Oroville, Washington. JCPDS 8-0467.
5. 37(5) 4. 23(10) 3. 45(3) 2. 88(3) 2. 68(4)
- 283 ERIOCHALCITE Synthetic. JCPDS 13-0145.
5. 47(10) 4. 04(7) 3. 07(6) 2. 64(10) 1. 85(5)
- 284 ERIONITE Nevada. JCPDS 22-0854.
6. 65(9) 4. 33(5) 3. 75(6) 3. 57(6) 2. 84(10)
- 285 ERYTHRITE Schneeberg, Saxony, Germany.
JCPDS 11-0626.
6. 65(10) 3. 23(7) 3. 00(7) 2. 72(7) 2. 32(6)
- 286 ESKOLAITE Boliden, Sweden. JCPDS 11-0354.
3. 63(8) 2. 68(9) 2. 48(9) 1. 81(6) 1. 67(10)
- 287 EUCRYPTITE Locality unknown. JCPDS 14-0667.
6. 73(5) 3. 96(10) 3. 38(8) 2. 74(8) 2. 55(6)
- 288 EUDIALYTE Langesundfiord, Norway.
JCPDS 8-0355.
5. 74(9) 4. 34(7) 3. 20(7) 2. 98(9) 2. 86(10)
- 289 EUIDYMITITE Langesundfiord, Norway.
JCPDS 14-0201.
6. 28(6) 3. 40(8) 3. 16(10) 3. 07(7) 3. 00(6)
- 290 EULYTITE Johanngeorgenstadt, Germany.
JCPDS 13-0529.
4. 13(9) 3. 20(10) 2. 70(10) 2. 07(7) 2. 01(7)
- 291 EUXENITE Various localities. JCPDS 9-0442.
3. 67(4) 2. 99(10) 2. 60(3) 1. 83(3) 1. 73(3)
- 292 FAIRCHILDITE Desoronto, Ontario.
JCPDS 21-0981.
6. 62(5) 3. 19(10) 2. 66(7) 2. 63(7) 2. 22(5)
- 293 FAMATINITE La Rieja, Argentina.
JCPDS 9-0276.
3. 08(10) 2. 67(3) 1. 89(7) 1. 61(5) 1. 23(4)
- 294 FAUJASITE Kaiserstuhl, Baden, Germany.
JCPDS 11-0672.
8. 67(7) 7. 38(7) 5. 64(10) 4. 76(7) 3. 75(10)

FELDSPARS, PLAGIOCLASE

- 295 ALBITE An1 Low Temperature, Amelia County, Virginia. JCPDS 19-1184.
4. 02(8) 3. 63(6) 3. 19(10) 2. 93(7) 2. 54(4)
- 296 ALBITE An1 High Temperature, Amelia albite heated at 1065°C for 10 days. JCPDS 10-0393.
4. 01(7) 3. 72(7) 3. 19(10) 2. 92(5) 2. 51(5)
- 297 OLIGOCLASE An26 Hull Township, Quebec.
4. 02(7) 3. 18(10) 2. 92(8) 2. 53(4) 1. 82(5)
- 298 LABRADORITE An60 Low Temperature. Stillwater Complex.
LABRADORITE An65 High Temperature. Delta, Utah.
4. 01(7) 3. 73(6) 3. 19(10) 2. 92(10) 2. 51(6)
- BYTOWNITE An75 Intermediate Temperature. Muskox Intrusion.
- 299 ANORTHITE An93 Duke Island, Alaska.
4. 01(5) 3. 76(5) 3. 61(5) 3. 18(10) 2. 93(5)

FELDSPARS, POTASSIUM

- 300 MAXIMUM MICROCLINE Bancroft, Ontario. Borg, I. Y. and Smith, D. K. (1969): G. S. A. Memoir 122, p. 677.
4. 20(7) 3. 47(5) 3. 24(10) 2. 16(6) 1. 80(7)
- 301 ORTHOCLASE Itrongay, Madagascar. Borg, I. Y. and Smith, D. K. (1969): G. S. A. Memoir 122, p. 692.
4. 21(7) 3. 79(7) 3. 32(10) 3. 22(10) 2. 99(6)
- 302 FERBERITE Shimatsu, Ichikawa, Japan. JCPDS 21-0436.
4. 70(8) 3. 75(7) 2. 94(10) 2. 48(6) 1. 72(8)
- 303 FERGUSONITE Ytterby, Sweden. JCPDS 9-0443.
3. 12(10) 2. 94(9) 2. 73(6) 1. 89(9) 1. 63(7)
- 304 FERMORITE Sitapur, Ckhindwara, India. JCPDS 14-0215.
3. 49(5) 2. 86(10) 2. 75(6) 1. 97(4) 1. 87(4)
- 305 FERRIERITE Kamloops, British Columbia. JCPDS 11-0429.
5. 87(5) 3. 99(10) 3. 72(5) 3. 52(9) 3. 15(3)
- 306 FERRIMOLYBDITE York County, New Brunswick. Kerr, P. F., Thomas, A. W., and Langer, A. M. (1963): Amer. Mineral., 48, p. 18.
6. 71(4) 3. 23(10) 2. 71(6) 2. 02(6) 1. 65(5)
- 307 FERRITUNGSTITE Nyakabingu, Ruanda. JCPDS 11-0331.
5. 94(10) 3. 10(9) 2. 96(9) 1. 82(8) 1. 55(7)

- 308 FERVANITE La Sal Mountains, Utah. Weeks, A. D. and Thompson, M. E. (1954): U. S. G. S. Bull. 1009-B, p. 49.
8. 59(7) 6. 46(10) 3. 24(7) 2. 94(7) 2. 63(5)
- 309 FIBROFERRITE British Columbia. JCPDS 16-0935.
6. 99(10) 4. 60(8) 4. 06(7) 3. 36(5) 2. 78(6)
- 310 FINNEMANITE Langban, Sweden. JCPDS 14-0187.
3. 35(6) 3. 03(10) 2. 88(9) 2. 07(6) 1. 98(5)
- 311 FIZELYITE Kisbanya, Hungary. JCPDS 14-0460.
3. 80(4) 3. 49(5) 3. 34(10) 2. 92(4) 2. 09(4)
- 312 FLUELLITE Cornwall, England. JCPDS 19-0038.
6. 51(10) 3. 24(7) 3. 09(6) 2. 75(6) 2. 66(6)
- 313 FLUOBORITE Sterling Hill, New Jersey. JCPDS 19-0468.
4. 42(10) 2. 56(8) 2. 42(9) 2. 13(9) 1. 48(7)
- 314 FLUOCERITE Sweden. JCPDS 2-0529.
3. 63(7) 3. 20(10) 2. 06(8) 2. 00(8) 1. 79(7)
- 315 FLUORITE Labelle County, Quebec. JCPDS 4-0864.
3. 15(9) 1. 93(10) 1. 65(4) 1. 37(2) 1. 26(2)
- 316 FORNACITE Tiger, Arizona. JCPDS 15-0200.
4. 83(8) 3. 31(10) 2. 98(9) 2. 80(9) 2. 71(4)
- 317 FRANCEVILLITE Gabon, Africa. JCPDS 15-0527.
8. 30(10) 4. 17(8) 3. 27(5) 2. 98(9) 2. 11(6)
- 318 FRANCKEITE Poopo, Bolivia. JCPDS 10-0448.
4. 35(4) 3. 48(8) 2. 88(10) 2. 06(3) 1. 83(2)
- 319 FRANKLINITE Franklin Furnace, New Jersey. JCPDS 10-0467.
2. 99(7) 2. 55(10) 2. 12(4) 1. 63(7) 1. 50(8)
- 320 FREIESLEBENITE Mina Vasconeada, Spain. JCPDS 10-0468.
3. 48(8) 2. 98(7) 2. 83(10) 2. 08(5) 2. 01(4)
- 321 FRESNOITE California. JCPDS 18-0197.
3. 30(5) 3. 08(10) 2. 69(2) 2. 14(2) 2. 07(2)
- 322 FRIEDELITE Sterling, New Jersey. JCPDS 12-0250.
7. 17(9) 3. 60(6) 2. 88(6) 2. 56(10) 1. 68(5)
- 323 " " FÜLÖPPITE Baie Mare. Roumania. JCPDS 22-0648.
3. 87(9) 3. 22(10) 2. 94(4) 2. 12(4) 1. 98(4)
- 324 GADOLINITE Locality unknown. JCPDS 18-0220.
3. 13(10) 2. 83(10) 2. 56(10) 1. 88(7) 1. 65(7)
- 325 GAHNITE Sterling Hill, New Jersey. JCPDS 12-0267.
2. 86(8) 2. 44(10) 1. 65(4) 1. 55(6) 1. 43(7)

- 326 GALAXITE Alleghany County, North Carolina. JCPDS 10-0310.
2. 92(6) 2. 50(10) 2. 06(2) 1. 58(5) 1. 47(6)
- 327 GALENA Goldfields, Saskatchewan. JCPDS 5-0592.
3. 43(8) 2. 97(10) 2. 10(7) 1. 79(5) 1. 33(3)
- 328 GALENOBISMUTITE Témiskaming, Quebec. JCPDS 11-0138.
3. 44(10) 3. 03(4) 2. 46(4) 2. 04(4) 1. 96(5)
- 329 GANOMALITE Jakobsberg, Nordmark, Sweden. Welin, E. (1968): Arkiv. Min. Geol. Bd. 4, p. 515.
4. 91(9) 3. 07(10) 2. 71(10) 2. 85(8) 2. 79(8)
- GARNET GROUP
- 330 ALMANDINE Alert Harbour, Baffin Island. JCPDS 9-0427.
2. 90(5) 2. 59(10) 1. 88(4) 1. 61(4) 1. 55(6)
- 331 ANDRADITE Pontiac County, Quebec. JCPDS 10-0288.
2. 99(7) 2. 67(10) 1. 93(3) 1. 65(4) 1. 59(8)
- 332 GROSSULARITE Piedmont, Italy. JCPDS 3-0826.
2. 98(8) 2. 67(10) 1. 93(7) 1. 66(8) 1. 59(9)
- 333 SPESSARTITE Parry Sound, Ontario. JCPDS 10-0354.
2. 60(10) 1. 88(6) 1. 61(6) 1. 55(8) 1. 27(6)
- 334 SCHORLOMITE Magnet Cove, Arkansas. JCPDS 7-0390.
TOPAZOLITE Piedmont, Italy.
3. 03(7) 2. 71(9) 2. 47(7) 1. 68(6) 1. 62(10)
- 335 UVAROVITE Asia Minor. JCPDS 11-0696.
3. 00(8) 2. 68(10) 2. 45(7) 1. 66(5) 1. 61(9)
- 336 GARNIERITE New Caledonia. JCPDS 2-0060.
7. 34(9) 3. 65(6) 2. 64(6) 2. 45(6) 1. 53(10)
- 337 GASPEITE Gaspé Peninsula, Quebec. Kohls, D. W. and Rodda, J. L. (1966): Amer. Mineral., 51, p. 680.
3. 52(3) 2. 73(10) 2. 10(4) 1. 93(3) 1. 69(5)
- 338 GAUDEFROYITE Morocco. JCPDS 17-0154.
4. 55(8) 2. 97(9) 2. 63(9) 2. 47(10) 1. 80(7)
- 339 GAYLUSSITE California. JCPDS 21-0343.
6. 42(9) 4. 48(6) 3. 20(10) 2. 71(9) 2. 64(9)
- 340 GEARKSUTITE Wagon Wheel Gap, Colorado. JCPDS 5-0283.
4. 58(10) 3. 36(7) 3. 16(8) 2. 30(8) 1. 93(8)
- 341 GEHLENITE Mount Monzoni, Italy. JCPDS 20-0199.
3. 05(5) 2. 85(10) 2. 72(7) 1. 75(5) 1. 62(4)
- 342 GENTHELVITE Locality unknown. JCPDS 13-0114.
3. 33(10) 2. 58(4) 2. 17(4) 1. 92(8) 1. 66(2)
- 343 GEOCRONITE Madoc, Ontario, Jambor, J. L. (1968): Amer. Mineral., 9, p. 505.
3. 54(9) 3. 20(9) 2. 88(8) 2. 24(10) 1. 84(9)
Mount not available.
- 344 GERHARDTITE Synthetic. JCPDS 14-0687.
6. 97(10) 3. 47(9) 2. 66(7) 2. 46(7) 2. 08(7)
- 345 GERMANITE Tsumeb, South West Africa. JCPDS 10-0469.
3. 05(10) 2. 64(4) 1. 87(9) 1. 60(7) 1. 21(4)
- 346 GERSDORFFITE Algoma district, Ontario. JCPDS 12-0705.
2. 83(6) 2. 54(10) 2. 31(9) 2. 00(4) 1. 71(9)
- 347 GIBBSITE Locality unknown. JCPDS 7-0324.
4. 85(10) 4. 37(5) 2. 42(7) 1. 99(3) 1. 45(5)
- 348 GILLESPIE Mariposa County, California. JCPDS 3-0402.
4. 42(7) 3. 39(10) 3. 22(7) 2. 65(5) 2. 39(4)
- 349 GINORITE Death Valley, California. JCPDS 8-0116.
7. 20(10) 5. 36(7) 3. 57(6) 3. 29(7) 2. 09(8)
- 350 GISMONDINE Capo di Bove, Italy. JCPDS 21-0840.
7. 26(6) 4. 93(7) 4. 23(9) 3. 13(9) 2. 71(10)
- 351 GLAUBERITE San Bernadino, California. JCPDS 2-0556.
6. 22(4) 3. 13(10) 2. 81(7) 2. 67(9) 2. 00(7)
- 352 GLAUCOCHROITE Franklin Furnace, New Jersey. JCPDS 14-0376.
3. 71(7) 2. 98(7) 2. 70(8) 2. 63(8) 1. 85(10)
- 353 GLAUCODOT Sudbury, Ontario. JCPDS 5-0643.
2. 75(10) 2. 47(8) 2. 42(8) 1. 82(9) 1. 64(4)
- 354 GLAUCONITE New Jersey. JCPDS 9-0439.
4. 53(8) 3. 33(5) 2. 60(10) 2. 41(5) 1. 52(7)
- 355 GMELINITE Flinters, Victoria, Australia. JCPDS 9-0419.
5. 10(6) 4. 10(10) 3. 24(6) 3. 00(7) 2. 86(6)
- 356 GOETHITE New Ross, Nova Scotia. JCPDS 17-0536.
4. 18(10) 2. 69(7) 2. 45(4) 2. 19(4) 1. 72(4)
- 357 GOLD Kirkland Lake, Ontario. JCPDS 4-0784.
2. 36(10) 2. 04(5) 1. 44(3) 1. 23(4) 1. 18(2)
- 358 GONNARDITE Oka district, Quebec. JCPDS 10-0473.
5. 93(8) 4. 75(5) 4. 44(7) 3. 23(5) 2. 93(10)

- 359 GORCEIXITE Dale County, Alabama.
JCPDS 19-0535.
5. 72(8) 2. 97(10) 2. 21(8) 1. 89(7) 1. 75(6)
- 360 GOWERITE Death Valley, California.
JCPDS 12-0528.
9. 20(3) 8. 19(10) 3. 85(5) 3. 19(5) 2. 73(3)
- 361 GOYAZITE Binnenthal, Switzerland.
JCPDS 11-0194.
5. 72(8) 3. 49(7) 2. 96(10) 2. 20(8) 1. 89(7)
- 362 GRAFTONITE Southern Rhodesia. JCPDS 6-0423.
3. 50(9) 3. 02(2) 2. 86(10) 2. 72(8) 2. 42(2)
- 363 GRANDIDIERITE Madagascar. JCPDS 18-0581.
5. 50(8) 5. 04(10) 3. 71(6) 2. 74(8) 2. 16(8)
- 364 GRAPHITE High Falls, Bowman, Quebec. Berry,
L. G. and Thompson, R.M. (1962):
G. S. A. Memoir 85, p. 23
3. 36(10) 1. 68(8) 1. 54(6) 1. 23(6) 1. 15(7)
- 364 GRATONITE Cerro de Pasco, Peru.
JCPDS 13-0446.
3. 78(7) 3. 43(10) 2. 85(6) 2. 72(6) 2. 21(4)
- 366 GRAYITE Southern Rhodesia. Dooley, J.R.
and Hathaway, J. C. (1961): U. S. G. S.
Prof. Paper 424-C, pp. 339-341.
4. 35(6) 3. 06(10) 2. 84(9) 2. 16(9) 1. 87(5)
- 367 GREENALITE Locality unknown. JCPDS 11-0265.
7. 14(8) 3. 56(8) 2. 59(10) 1. 82(6) 1. 60(6)
Mount not available.
- 368 GREENOCKITE Synthetic. JCPDS 6-0314.
3. 58(8) 3. 36(7) 3. 15(10) 2. 07(6) 1. 75(5)
- 369 GRIPHITE Rapid City, South Dakota.
JCPDS 7-0391.
3. 07(4) 2. 99(4) 2. 75(10) 2. 51(4) 1. 64(5)
- 370 GROUTITE Whale Cove, Nova Scotia.
JCPDS 12-0733.
4. 20(10) 2. 81(5) 2. 66(5) 2. 38(6) 1. 70(5)
- 371 GUDMUNDITE Wolfe County, Quebec.
JCPDS 8-0104.
2. 54(10) 1. 91(8) 1. 62(6) 1. 46(6) 1. 41(7)
- 372 GUERINITE Norway. JCPDS 17-0165.
3. 30(6) 3. 00(10) 2. 87(9) 2. 02(5) 1. 70(5)
Mount not available.
- 373 GUETTARDITE Madoc, Ontario. JCPDS 20-0561.
4. 18(5) 3. 90(5) 3. 52(10) 2. 80(9) 2. 67(5)
- 374 GUITERMANITE Livingston Mine, Washington.
JCPDS 2-0538.
3. 20(10) 2. 89(4) 2. 24(10) 2. 12(3) 1. 83(10)
- 375 GUNNINGITE Plumington County, South Dakota.
JCPDS 12-0781.
4. 80(7) 3. 41(10) 3. 36(3) 3. 07(6) 2. 53(6)
- 376 GYPSUM Ellsworth, Ohio. JCPDS 6-0046.
7. 56(10) 4. 27(10) 3. 07(7) 2. 87(5) 2. 68(4)
- 377 HAGGITE Edgemont, South Dakota.
JCPDS 13-0163.
4. 80(10) 4. 04(5) 3. 50(2) 3. 03(2) 2. 44(5)
- 378 HALITE Locality unknown. JCPDS 5-0628.
2. 82(10) 1. 99(8) 1. 63(2) 1. 26(3) 1. 15(2)
- 379 HALLOYSITE Bavaria, Germany. JCPDS 13-0375.
7. 20(9) 4. 44(10) 3. 62(7) 2. 51(3) 2. 33(3)
- 380 HALOTRICHITE British Columbia. JCPDS 11-0506.
4. 80(10) 4. 60(3) 4. 29(7) 4. 11(5) 3. 48(10)
- 381 HAMBERGITE Madagascar. JCPDS 17-0475.
4. 52(4) 3. 80(10) 3. 13(10) 2. 20(5) 2. 12(4)
- 382 HANCOCKITE Franklin Furnace, New Jersey.
JCPDS 17-0212.
3. 49(5) 2. 91(10) 2. 81(4) 2. 62(5) 2. 18(4)
- 383 HANKSITE Borax Lake, California.
JCPDS 4-0414.
3. 80(10) 2. 79(10) 2. 61(10) 2. 45(5) 1. 90(8)
- 384 HANNAYITE Skipton Caves, Victoria, Australia.
JCPDS 16-0361.
6. 97(10) 5. 16(6) 4. 65(5) 3. 47(9) 3. 29(4)
- 385 HARDYSTONITE Franklin Furnace, New Jersey.
JCPDS 12-0453.
3. 72(5) 3. 09(6) 2. 87(10) 2. 47(4) 1. 76(6)
- 386 HARMOTOME Croton Aqueduct, New York.
JCPDS 20-0468.
6. 37(9) 4. 08(10) 3. 13(10) 2. 73(6) 2. 67(8)
- 387 HAUCHECORNITE Sudbury, Ontario.
JCPDS 6-0457.
4. 35(5) 3. 65(4) 2. 79(10) 2. 39(6) 2. 30(6)
- 388 HAUERITE Raddusa, Sicily. JCPDS 10-0476.
3. 06(10) 2. 75(5) 2. 16(5) 1. 84(7) 1. 17(7)
- 389 HAUSMANNITE Langban, Sweden. JCPDS 16-0154.
3. 08(7) 2. 76(9) 2. 48(10) 1. 58(5) 1. 54(8)
- 390 HAÜYNE Albano, Italy. JCPDS 20-1087.
6. 47(1) 3. 72(10) 2. 88(2) 2. 63(4) 2. 15(4)
- 391 HAWLEYITE Keno Hill, Yukon. JCPDS 10-0454.
3. 36(10) 2. 90(4) 2. 06(8) 1. 75(7) 1. 34(3)
- 392 HEAZLEWOODITE Blue River, British Columbia.
JCPDS 8-0126.
4. 08(5) 2. 89(9) 2. 04(5) 1. 83(10) 1. 67(8)

- 393 HEDYPHANE Langban, Sweden. JCPDS 14-0213.
4. 18(4) 3. 03(10) 2. 96(6) 2. 92(5) 1. 97(5)
- 394 HELLANDITE Kragero, Norway. Hogarth, D. D.,
Chao, G. Y., and Harris, D. C. (1972):
Can. Mineral., 11, p. 760.
4. 67(4) 3. 41(5) 2. 81(5) 2. 63(10) 1. 88(4)
- 395 HELVINE James Bay, Ontario. JCPDS 17-0205.
3. 36(10) 2. 59(4) 2. 20(5) 1. 94(9) 1. 45(4)
- 396 HEMATITE New Ross, Nova Scotia.
JCPDS 13-0534.
2. 69(10) 2. 52(6) 1. 84(4) 1. 70(7) 1. 48(4)
- 397 HEMIMORPHITE New Jersey. JCPDS 5-0555.
6. 60(8) 5. 37(6) 3. 10(10) 2. 56(6) 2. 40(9)
- 398 HERCYNITE Ransperg, Bohemia. JCPDS 3-0894.
2. 87(6) 2. 45(10) 2. 03(4) 1. 56(7) 1. 44(8)
- 399 HERDERITE Stoneham, Maine. JCPDS 6-0338.
3. 14(10) 3. 00(6) 2. 86(8) 2. 55(6) 2. 20(7)
- 400 HESSITE Yale, British Columbia.
JCPDS 12-0695.
2. 99(6) 2. 86(8) 2. 30(10) 2. 24(7) 2. 14(6)
- 401 HETAEROLITE Arizona. JCPDS 18-1484.
2. 99(4) 2. 69(9) 2. 46(10) 1. 56(5) 1. 51(6)
- 402 HETEROGENITE Katanga. JCPDS 7-0169.
4. 41(10) 2. 32(9) 1. 81(8) 1. 43(3) 1. 36(2)
- 403 HETEROSITE North Groton, New Hampshire.
JCPDS 11-0457.
4. 90(5) 4. 29(9) 3. 48(10) 2. 93(8) 2. 44(10)
- 404 HEULANDITE Tirol, Austria. JCPDS 21-0131.
5. 10(6) 4. 65(6) 4. 12(4) 3. 97(10) 2. 97(9)
- 405 HEXAHYDRITE British Columbia. JCPDS 13-0101.
5. 47(5) 5. 15(4) 4. 42(10) 4. 04(8) 2. 93(9)
- 406 HILGARDITE Choctaw Salt Dome, Louisiana.
JCPDS 11-0404.
2. 85(10) 2. 11(8) 2. 03(8) 1. 96(5) 1. 82(7)
- 407 HINSDALITE Lake City, Colorado.
JCPDS 14-0185.
5. 70(9) 3. 49(5) 2. 96(10) 2. 22(7) 1. 89(5)
- 408 HODGKINSONITE Franklin Furnace, New Jersey.
JCPDS 15-0280.
2. 96(9) 2. 86(10) 2. 57(7) 1. 55(9) 1. 41(7)
- 409 HOHMANNITE Quetena, Chile. JCPDS 17-0155.
8. 59(8) 7. 92(10) 5. 31(5) 3. 27(4) 3. 14(4)
Mount not available.
- 410 HOPEITE Broken Hill Mine, Rhodesia.
JCPDS 1-0964.
9. 10(5) 3. 47(4) 3. 40(4) 2. 86(10) 2. 63(4)
- 411 HÖRNESITE Manhatten, Nevada. JCPDS 19-0752.
6. 71(10) 3. 22(4) 3. 01(5) 2. 73(4) 1. 68(3)
- 412 HOWLITE Windsor, Nova Scotia.
JCPDS 10-0410.
6. 19(10) 3. 90(8) 3. 10(8) 2. 07(5) 2. 04(7)
- 413 HÜBNERITE Gladstone, Colorado. JCPDS 13-0434.
4. 80(6) 3. 75(6) 2. 98(10) 2. 95(9) 2. 48(6)
- 414 HÜHNERKOBELITE Yellowknife, Northwest
Territories. JCPDS 17-0513.
6. 24(7) 3. 09(6) 2. 88(4) 2. 70(10) 2. 54(7)
Mount not available.
- 415 HUMITE Monte Somma, Italy.
JCPDS 12-0755.
3. 64(5) 2. 45(9) 2. 26(10) 1. 74(10) 1. 48(9)
- 416 HUMMERITE Montrose County, California.
JCPDS 14-0155.
8. 20(10) 7. 38(7) 7. 08(5) 3. 31(4) 2. 75(6)
- 417 HUREAULITE Hagendorf, Germany.
JCPDS 16-0382.
8. 62(6) 8. 01(7) 3. 14(10) 2. 98(7) 2. 19(6)
- 418 HURLBUTITE Newport, New Hampshire.
JCPDS 6-0213.
3. 65(10) 3. 50(7) 3. 03(9) 2. 78(9) 2. 20(9)
- 419 HUTTONITE Locality unknown. JCPDS 4-0613.
4. 71(7) 4. 23(8) 3. 29(8) 3. 08(10) 2. 88(9)
Mount not available.
- 420 HYDROCALUMITE Boissjour, Puy de Dome,
France. JCPDS 16-0333.
7. 90(10) 3. 95(9) 2. 88(5) 2. 44(4) 2. 29(4)
- 421 HYDROCERUSSITE Little Gaspé. Mine, Quebec.
JCPDS 13-0131.
4. 46(6) 4. 23(6) 3. 61(9) 3. 29(9) 2. 62(10)
- 422 HYDROMAGNESITE Atlin, British Columbia.
JCPDS 8-0179.
6. 42(4) 5. 83(10) 3. 31(3) 2. 91(9) 2. 15(5)
- 423 HYDROTALCITE St. Lawrence County, New York.
JCPDS 14-0191.
7. 63(7) 3. 85(10) 2. 57(8) 2. 30(7) 1. 95(9)
- 424 HYDROZINCITE Constantine, Algeria.
JCPDS 19-1458.
6. 66(10) 3. 15(6) 2. 72(8) 2. 48(9) 1. 69(5)
- 425 ILESITE Synthetic Material. JCPDS 14-0655.
5. 54(9) 4. 48(10) 4. 00(8) 3. 45(5) 2. 99(7)
Mount not available.
- 426 ILMENITE Yarmouth, Nova Scotia.
JCPDS 3-0781.
2. 75(10) 2. 54(9) 1. 87(8) 1. 73(10) 1. 51(8)

- 427 ILSEMANNITE Marysvale, Utah. JCPDS 21-0574.
4. 23(5) 3. 36(10) 2. 72(4) 2. 44(3) 1. 64(5)
- 428 ILVAITE Ilimaussag, Greenland.
JCPDS 14-0067.
7. 25(10) 3. 86(4) 2. 84(10) 2. 71(6) 1. 47(5)
- 429 INESITE Langban, Sweden. JCPDS 21-0151.
8. 92(10) 4. 02(5) 2. 92(8) 2. 74(5) 2. 19(7)
- 430 INYOITE Hillsborough, New Brunswick.
JCPDS 6-0361.
7. 56(10) 4. 80(9) 3. 85(5) 3. 04(7) 2. 79(6)
- 431 IODYRITE Broken Hill, Australia.
JCPDS 9-0374.
3. 94(4) 3. 73(10) 2. 29(6) 1. 95(5) 1. 33(3)
- 432 IRIDOSMINE Ural Mountains, U. S. S. R. Berry,
L. G. and Thompson, R. M. (1962):
G. S. A. Memoir 85, p. 14.
2. 36(4) 2. 16(4) 2. 07(10) 1. 60(3) 1. 23(5)
- 433 IRON (KAMACITE) Coahuila Meteorite.
JCPDS 6-0696.
2. 03(10) 1. 44(2) 1. 17(3) 1. 01(1) 0. 91(1)
Mount not available
- 434 ISOKITE Katanga. JCPDS 7-0406.
3. 19(10) 3. 02(10) 2. 63(10) 2. 29(7) 1. 71(8)
- 435 JACOBSITE Sweden. Berry, L. G. and Thompson,
R. M. (1962): G. S. A. Memoir 85,
p. 194.
2. 97(4) 2. 54(10) 2. 10(2) 1. 62(3) 1. 49(4)
- 436 JAMESONITE Nevada. Berry L. G. and Thomp-
son, R. M. (1962): G. S. A. Memoir
85, p. 191.
3. 85(5) 3. 44(10) 3. 17(5) 2. 84(9) 2. 75(8)
- 437 JARLITE Ivigtut, Greenland. JCPDS 5-0594.
3. 19(9) 3. 11(6) 2. 97(10) 2. 15(7) 1. 81(6)
- 438 JAROSITE Lawrence County, South Dakota.
JCPDS 10-0443.
5. 04(4) 3. 08(10) 2. 29(5) 1. 97(5) 1. 82(5)
- 439 JOAQUINITE San Benito County, California.
JCPDS 20-0543.
4. 44(10) 3. 30(5) 2. 99(9) 2. 93(9) 2. 79(5)
- 440 JOESMITHITE Langban, Sweden. JCPDS 22-0531.
3. 69(4) 3. 33(10) 2. 56(6) 2. 53(6) 2. 13(4)
- 441 JOHANNITE Locality unknown. JCPDS 17-0530.
7. 56(10) 6. 15(8) 4. 37(6) 3. 87(9) 3. 10(7)
- 442 JORDANITE Switzerland. JCPDS 11-0100.
3. 49(7) 3. 18(8) 2. 85(7) 2. 24(10) 1. 83(8)
- 443 JOSEITE II Locality unknown. Berry, L. G. and
Thompson, R. M. (1962): G. S. A.
Memoir 85, p. 27.
3. 15(10) 2. 29(5) 2. 17(7) 1. 78(3) 1. 38(2)
- 444 JOSEPHINITE Locality unknown. JCPDS 12-0736.
2. 05(10) 1. 78(5) 1. 28(2) 1. 07(1) 1. 03(1)
- 445 KAINOSITE Bancroft, Ontario. JCPDS 14-0332.
6. 51(10) 3. 45(7) 3. 29(8) 3. 19(8) 2. 17(7)
- 446 KALIBORITE East Kazakhstan, U. S. S. R.
JCPDS 18-0669.
7. 25(10) 6. 24(10) 3. 80(10) 3. 12(9) 2. 49(5)
- 447 KAOLINITE Vancouver Island, British Columbia.
JCPDS 14-0164.
7. 08(10) 4. 37(8) 3. 59(10) 2. 32(10) 1. 49(9)
- 448 KASOLITE Katanga. JCPDS 12-0210.
6. 15(5) 4. 21(10) 3. 24(9) 3. 06(9) 2. 92(10)
- 449 KENTROLITE Langban, Sweden. JCPDS 20-0586.
5. 55(7) 3. 24(8) 2. 89(10) 2. 86(10) 2. 74(10)
- 450 KERMESITE Hants County, Nova Scotia.
JCPDS 11-0091.
5. 27(7) 4. 08(9) 3. 14(9) 2. 92(10) 2. 70(7)
- 451 KERNITE Kern County, California.
JCPDS 11-0258.
7. 38(10) 6. 56(9) 3. 70(8) 3. 25(9) 2. 88(5)
- 452 KIESERITE Hanover, Germany. JCPDS 13-0102.
4. 83(10) 3. 41(10) 3. 33(10) 2. 57(9) 2. 53(9)
- 453 KLOCKMANNITE Sonora, Mexico. JCPDS 6-0427.
3. 35(8) 3. 19(9) 2. 88(10) 1. 98(9) 1. 83(8)
- 454 KNEBELITE Bluebell Mine, British Columbia.
JCPDS 12-0220.
3. 58(7) 2. 85(10) 2. 57(7) 2. 51(9) 1. 78(10)
- 455 KOBELLITE Wake County, North Carolina.
JCPDS 8-0122.
3. 53(10) 3. 40(10) 2. 85(5) 2. 14(4) 2. 02(4)
- 456 KOLOVRATITE Fergana, Turkestan.
JCPDS 15-0102.
5. 81(10) 3. 87(8) 3. 38(3) 2. 63(3) 2. 56(3)
Mount not available.
- 457 KORNERUPINE Waldheim, Saxony.
JCPDS 18-0670.
3. 37(6) 3. 02(9) 2. 62(10) 2. 10(6) 1. 49(5)
- 458 KRAUSITE San Bernardino County, California.
JCPDS 18-1028.
6. 59(7) 4. 40(8) 4. 27(5) 3. 68(7) 3. 09(10)
- 459 KRÖHNKITE Chuquicamata, Chile.
JCPDS 11-0090.
6. 33(10) 3. 71(7) 3. 28(9) 2. 92(8) 2. 76(9)
- 460 KYANITE Pizzo Forno, Switzerland.
JCPDS 11-0046.
3. 19(10) 2. 52(5) 2. 36(5) 1. 94(8) 1. 38(9)

- 461 LAITAKARITE Locality unknown. JCPDS 14-0220.
3.08(10) 2.24(6) 2.10(6) 1.90(4) 1.73(4)
- 462 LANARKITE Leadhills, Scotland. JCPDS 18-0702.
3.34(10) 2.95(10) 2.84(8) 2.05(7) 1.84(8)
- 463 LANGBANITE Langban, Sweden. JCPDS 14-0195.
2.80(8) 2.75(9) 2.56(10) 1.67(7) 1.55(7)
- 464 LANGITE Menzies Bay, British Columbia.
JCPDS 12-0783.
7.03(10) 3.56(8) 2.49(8) 2.13(7) 1.77(7)
- 465 LANTHANITE Bastnas, Sweden. JCPDS 14-0190.
9.10(9) 4.60(7) 3.12(10) 2.49(7) 1.61(7)
- 466 LAUMONTITE Copper Falls, Michigan.
JCPDS 15-0276.
6.76(7) 4.16(10) 3.51(9) 3.04(5) 2.43(5)
- 467 LAUNAYITE Madoc, Ontario. JCPDS 20-0568.
4.17(9) 3.45(10) 3.39(6) 2.92(9) 2.01(7)
- 468 LAURIONITE Greece. JCPDS 6-0268.
3.29(10) 2.51(9) 2.29(7) 2.05(6) 2.00(6)
- 469 LAUTITE Marienberg, Saxony. JCPDS 12-0738.
5.66(3) 3.10(10) 2.71(3) 1.90(6) 1.61(5)
- 470 LAVENDULAN San Juan, Chile. JCPDS 11-0351.
9.61(10) 7.02(5) 4.87(6) 4.42(5) 3.12(7)
- 471 LAWSONITE Marin County, California.
JCPDS 13-0533.
4.85(6) 3.65(6) 2.72(7) 2.62(10) 1.55(8)
- 472 LAZULITE Werfen, Salzburg, Austria.
JCPDS 14-0137.
6.11(8) 4.72(6) 3.24(10) 3.11(9) 1.57(7)
- 473 LAZURITE Lake Harbour, Baffin Island.
JCPDS 17-0749.
6.35(4) 4.12(4) 3.70(10) 2.87(4) 2.62(7)
- 474 LEAD Franklin, New Jersey. JCPDS 4-0686.
2.86(10) 2.48(7) 1.75(6) 1.49(7) 1.43(2)
- 475 LEADHILLITE Granby, Montana. JCPDS 18-0705.
3.55(10) 2.94(6) 2.62(5) 2.11(3) 1.55(4)
- 476 LENGENBACHITE Binnenthal, Switzerland.
JCPDS 14-0418.
6.20(2) 4.60(3) 3.06(10) 2.84(9) 2.04(6)
- 477 LEONHARDTITE Okanagan Lake, British Columbia.
JCPDS 14-0632.
6.76(5) 5.50(8) 4.48(10) 3.96(8) 2.95(9)
- 478 LEONITE New Mexico. JCPDS 21-0995.
5.87(5) 3.42(10) 3.28(6) 3.04(8) 2.37(8)
- 479 LEPIDOCROCITE Keno Hill, Yukon.
JCPDS 8-0098.
6.28(10) 3.29(8) 2.46(9) 1.94(7) 1.73(4)
Mount not available.
- 480 LEUCITE Vesuvius, Italy. JCPDS 15-0047.
5.37(8) 3.44(9) 3.27(10) 2.92(7) 2.84(7)
- 481 LEUCOPHANE Langesundfiord, Norway.
JCPDS 18-0711.
3.60(5) 2.98(5) 2.75(10) 2.32(4) 1.70(5)
- 482 LEUCOPHOENICITE Franklin, New Jersey.
JCPDS 3-1104.
2.86(7) 2.70(5) 2.39(5) 1.81(10) 1.57(5)
- 483 LEUCOSPHEENITE Mont Saint-Hilaire, Quebec.
JCPDS 18-0712.
8.44(8) 4.23(10) 3.37(6) 2.87(7) 2.80(6)
- 484 LEVYNE Locality unknown. JCPDS 17-0535.
8.19(7) 4.27(6) 4.10(10) 3.18(7) 2.82(8)
- 485 LIBETHENITE Katanga. JCPDS 1-0274.
5.80(4) 4.81(10) 3.71(3) 2.91(5) 2.63(10)
- 486 LIEBIGITE Locality unknown. JCPDS 11-0296.
6.81(10) 5.40(10) 4.55(6) 3.33(5) 3.12(6)
- 487 LINARITE Frisco, Utah. JCPDS 4-0598.
4.53(6) 3.56(7) 3.14(10) 2.18(5) 1.82(7)
- 488 LINNAEITE Musen, Germany. JCPDS 11-0121.
3.35(1) 2.83(10) 2.36(7) 1.81(7) 1.66(8)
- 489 LIROCONITE Cornwall, England. JCPDS 12-0526.
6.52(10) 6.03(9) 3.91(4) 3.01(9) 2.70(5)
- 490 LISKEARDITE Cornwall, England. Guillemin,
C. (1952): Bull. Soc. Franc. Min.
Crist., 75, p. 133.
8.76(10) 7.31(9) 3.45(6) 3.31(5) 2.84(5)
- 491 LITHARGE Whitehorse, Yukon. JCPDS 5-0561.
3.12(10) 2.81(6) 2.51(5) 1.87(7) 1.68(6)
- 492 LIVINGSTONITE Hurtzco, Mexico. JCPDS 4-0654.
3.77(7) 3.48(7) 3.00(10) 2.27(7) 1.73(7)
- 493 LÖLLINGITE Peterborough County, Ontario.
JCPDS 18-0635.
2.61(10) 2.53(8) 2.33(10) 1.86(8) 1.64(9)
- 494 LOPARITE Kola Peninsula, U. S. S. R.
Gorzhevskaya, S. A. and Sidorenko,
G. A. (1969): Min Sbornik, 23-3,
p. 274.
2.75(10) 2.24(2) 1.94(8) 1.59(9) 1.37(6)
- 495 LORANDITE Allchar, Macedonia, Greece.
JCPDS 19-1331.
3.68(6) 3.58(10) 2.97(7) 2.88(8) 2.76(4)

- 496 LUDLAMITE Wheal Jane, Cornwall, England.
JCPDS 17-0468.
4.91(9) 3.95(10) 3.00(6) 2.77(10) 2.54(10)
- 497 LUDWIGITE Banat, Hungary. JCPDS 15-0797.
6.19(2) 5.13(10) 2.56(10) 2.17(2) 2.04(3)
- 498 LYNDOCHITE Lyndoch Township, Ontario.
JCPDS 18-0765.
3.01(10) 2.95(7) 1.85(4) 1.58(4) 1.51(5)
Heated 5 minutes in vacuum at 1,000°C.
- 499 MACKINAWITE Coppermine district, Northwest
Territories. JCPDS 15-0037.
5.03(10) 2.98(8) 2.31(8) 1.83(5) 1.81(7)
Mount not available.
- 500 MADOCITE Madoc, Ontario. JCPDS 20-0567.
3.66(7) 3.40(10) 2.92(6) 2.72(9) 1.74(6)
- 501 MAGNESIOCHROMITE Black Lake, Quebec.
JCPDS 9-0353.
2.92(2) 2.49(10) 2.05(5) 1.59(6) 1.47(7)
- 502 MAGNESIOFERRITE Baden, Germany.
JCPDS 17-0465.
2.97(5) 2.53(10) 2.10(4) 1.62(7) 1.48(8)
- 503 MAGNESITE Osmond Mine, South Africa.
JCPDS 8-0479.
2.75(10) 2.51(2) 2.10(7) 1.94(2) 1.70(6)
- 504 MAGNETITE Parry Sound, Ontario.
JCPDS 11-0614.
2.96(6) 2.54(10) 2.10(7) 1.61(8) 1.49(9)
- 505 MAGNETOPLUMBITE Sweden. JCPDS 4-0704.
2.96(5) 2.77(10) 2.62(10) 1.67(5) 1.62(7)
- 506 MALACHITE Bisbee, Arizona. JCPDS 10-0399.
5.99(7) 5.06(8) 3.69(9) 2.85(10) 2.52(6)
- 507 MANASSEITE Langban, Sweden. JCPDS 14-0525.
7.69(8) 3.93(10) 2.40(5) 2.23(7) 1.87(9)
- 508 MANGANITE Cape Tenny, Nova Scotia.
JCPDS 18-0805.
3.41(10) 2.64(4) 2.41(8) 1.78(4) 1.68(9)
- 509 MANGANOSITE Franklin Furnace, New Jersey.
JCPDS 7-0230.
2.57(6) 2.22(10) 1.57(6) 1.34(3) 1.28(2)
- 510 MARCASITE Bohemia. JCPDS 3-0799.
3.45(6) 2.71(10) 2.41(4) 2.33(4) 1.76(7)
- 511 MARGARITE Chester, Massachusetts.
JCPDS 18-0276.
3.18(10) 2.52(6) 1.91(5) 1.60(5) 1.47(6)
- 512 MARGAROSANITE Franklin, New Jersey.
JCPDS 16-0356.
5.08(4) 3.19(4) 3.01(8) 2.98(10) 2.67(4)
- 513 MAROKITE Morocco. JCPDS 16-0709.
2.71(10) 2.55(6) 2.29(8) 2.22(10) 2.06(8)
- 514 MARSHITE Locality unknown. JCPDS 6-0246.
3.49(10) 3.03(2) 2.14(7) 1.82(5) 1.39(3)
Mount not available.
- 515 MASCAGNITE Sonoma County, California.
JCPDS 8-0077.
5.25(5) 4.37(10) 3.90(6) 3.12(7) 3.00(8)
- 516 MASSICOT Synthetic material. JCPDS 5-0570.
3.07(10) 2.95(3) 2.74(3) 2.38(3) 1.72(3)
- 517 MATILDITE Tachigi, Japan. JCPDS 4-0691.
3.31(9) 2.84(10) 2.04(7) 1.97(7) 1.32(3)
- 518 MATLOCKITE Matlock, Derbyshire, England.
JCPDS 4-0460.
3.58(10) 2.90(5) 2.71(4) 2.27(5) 1.79(5)
- 519 MAUCHERITE Locality unknown. JCPDS 8-0085.
2.71(9) 2.37(6) 2.03(10) 1.90(7) 1.72(9)
- 520 MAWSONITE Japan. JCPDS 18-0445.
3.09(10) 2.67(5) 1.90(9) 1.62(6) 1.23(4)
- 521 MELANOPHLOGITE Racalmuto, Sicily, Italy.
JCPDS 16-0331.
6.00(8) 5.47(7) 3.87(7) 3.72(6) 3.58(10)
- 522 MELANTERITE Heath Steele Mines, New Brun-
swick. JCPDS 1-0255.
5.50(2) 4.90(10) 3.79(8) 3.23(3) 2.64(3)
- 523 MELIPHANE Langesundfiord, Norway.
JCPDS 17-0204.
3.60(4) 2.96(5) 2.76(10) 2.34(4) 1.70(5)
- 524 MELLITE Artern, Thuringia. JCPDS 14-0745.
7.90(10) 5.80(5) 4.24(10) 2.59(5) 1.97(5)
- 525 MELONITE Robb-Montbray Mine, Quebec.
JCPDS 8-0004.
2.82(10) 2.34(3) 2.07(5) 1.93(5) 1.56(6)
- 526 MENDIPITE Arizona. JCPDS 8-0111.
3.06(10) 3.04(10) 2.76(9) 2.63(9) 2.09(9)
- 527 MENEGHINITE Bottino, Italy. JCPDS 8-0007.
3.71(9) 3.29(10) 2.92(9) 2.75(6) 2.08(5)
- 528 MERCALLITE Synthetic material. JCPDS 11-0649.
3.85(10) 3.52(8) 3.40(8) 3.27(9) 3.03(7)
- 529 MESOLITE King's County, Nova Scotia.
JCPDS 11-0173.
6.46(5) 5.86(7) 4.67(4) 4.37(7) 2.86(10)
- 530 META-AUTUNITE Mount Pointer, Australia.
FrondeI, C. (1958): U.S.G.S.
Bull. 1064, p. 207.
8.47(10) 5.37(8) 4.96(8) 3.62(9) 3.49(9)

- 531 METACINNABARITE Cluasthal, Germany. JCPDS 6-0261.
3. 38(10) 2. 93(4) 2. 07(7) 1. 76(7) 1. 34(2)
- 532 META-JARLITE Ivigtut, Greenland. JCPDS 5-0595.
3. 14(9) 3. 08(7) 2. 96(10) 2. 14(9) 1. 97(7)
- 533 META-URANOCIRCITE II Saxony, Germany. JCPDS 17-0759.
5. 39(9) 4. 90(5) 4. 25(8) 3. 61(10) 3. 21(9)
- 534 METAVAUXITE Bolivia. JCPDS 2-0856.
5. 10(6) 4. 69(8) 4. 33(7) 3. 97(5) 2. 76(10)
- 535 METAVOLTINE Liege, Belgium. JCPDS 20-0742.
7. 56(10) 8. 27(9) 3. 74(5) 3. 31(8) 3. 07(9)
- 536 METAZEUNERITE Schneeberg, Saxony. JCPDS 17-0146.
8. 59(7) 5. 54(8) 3. 74(10) 3. 57(7) 3. 30(8)
- 537 MIARGYRITE Ecuador. JCPDS 19-1136.
3. 44(9) 2. 88(10) 2. 75(7) 2. 01(4) 1. 81(3)
- MICA GROUP
- 538 BIOTITE Franklin Furnace, New Jersey. JCPDS 2-0045.
3. 40(7) 2. 64(10) 2. 45(5) 2. 19(5) 1. 52(9)
- 539 MUSCOVITE Lilac Mine, New Mexico. JCPDS 6-0263.
4. 44(5) 3. 34(10) 3. 19(3) 2. 96(5) 2. 55(9)
- BITYITE Lilac Mine, New Mexico.
- FUCHSITE Matachewan, Ontario
- LEPIDOLITE San Diego County, California.
- MARIPOSITE Tuttletown, California.
- PARAGONITE Australia.
- PHLOGOPITE Wakefield, Quebec.
- POLYLITHIONITE Kangerdluarsuk, Greenland.
- ZINNWALDITE Kangerdluarsuk, Greenland.
-
- 540 MICROLITE Amelia, Virginia. JCPDS 3-1139.
5. 98(6) 3. 01(10) 1. 84(8) 1. 57(8) 1. 19(7)
- 541 MICROSOMMITE Vesuvius, Italy. JCPDS 20-0743.
4. 82(10) 3. 71(10) 3. 30(10) 2. 68(8) 2. 46(6)
- 542 MILARITE Valgiuf, Switzerland. JCPDS 12-0450.
5. 20(5) 4. 17(7) 3. 31(10) 2. 88(9) 2. 74(5)
- 543 MILLERITE Orford, Quebec. JCPDS 12-0041.
4. 82(6) 2. 78(10) 2. 51(7) 2. 23(6) 1. 86(9)
- 544 MIMETITE Roughton Gill, Cumberland, England. JCPDS 19-0683.
3. 35(4) 3. 04(10) 2. 96(7) 2. 11(4) 1. 99(3)
- 545 MINASRAGRITE Minasragra, Peru. Smith, M. L. and Marienko, J. (1973): Amer. Mineral., 58, p. 531.
5. 43(6) 5. 13(10) 3. 91(7) 3. 51(2) 2. 91(6)
The pattern has strong lines at 4. 55 and 4. 33 which correspond to the strongest lines of synthetic VOSO₄ · 3H₂O.
Mount not available.
- 546 MINIUM Broken Hill, Australia. JCPDS 8-0019.
3. 38(10) 2. 90(5) 2. 79(5) 2. 63(3) 1. 75(4)
- 547 MINNESOTAITE Locality unknown. JCPDS 17-0506.
4. 75(2) 3. 19(8) 2. 75(2) 2. 65(2) 2. 53(10)
- 548 MIXITE Tintic district, Utah. JCPDS 13-0414.
3. 56(9) 2. 95(7) 2. 70(6) 2. 57(7) 2. 46(10)
- 549 MOLYBDENITE 2H Aldfield, Quebec. JCPDS 6-0097.
6. 15(10) 2. 28(5) 2. 05(4) 1. 83(4) 1. 54(4)
- 550 MOLYBDENITE 3R Harvey Hill, Quebec. JCPDS 17-0744.
6. 09(10) 2. 71(7) 2. 34(6) 2. 19(6) 1. 58(7)
- 551 MOLYBDITE Synthetic material. JCPDS 5-0508.
6. 87(3) 3. 81(8) 3. 45(6) 3. 26(10) 2. 65(4)
- 552 MONAZITE Brazil. JCPDS 11-0556.
4. 17(5) 3. 30(4) 3. 10(10) 2. 88(9) 2. 15(4)
- 553 MONETITE Island of Mona, West Indies. JCPDS 9-0080.
3. 35(10) 3. 13(2) 2. 96(9) 2. 71(4) 1. 84(3)
- 554 MONTICELLITE Crestmore, California. JCPDS 11-0353.
3. 64(9) 2. 94(5) 2. 67(10) 2. 59(8) 1. 82(9)
- 555 MONTMORILLONITE Alleghany County, New York. Earley, J. W., Osthaus, B. B. and Milne, I. H. (1953): Amer. Mineral., 38, p. 715.
4. 48(10) 3. 35(8) 2. 56(9) 1. 63(4) 1. 50(7)
- 556 MONTROSEITE Montrose County, California. JCPDS 11-0152.
4. 29(10) 3. 38(8) 2. 64(9) 2. 49(8) 2. 22(8)
- 557 MONTROYDITE Synthetic material. JCPDS 9-0381.
2. 97(10) 2. 83(8) 2. 76(6) 2. 40(7) 1. 81(6)
- 558 MOORHOUSEITE Walton, Nova Scotia. Jambor, J. L., and Boyle, R. W. (1965): Can. Mineral., 8, p. 168.
4. 37(10) 4. 01(6) 2. 91(8) 2. 27(4) 2. 00(4)
- 559 MORDENITE Penticton, British Columbia. JCPDS 6-0239.
6. 56(9) 4. 53(8) 3. 99(9) 3. 49(9) 3. 22(10)

- 560 MORENOSITE Synthetic material. JCPDS 1-0403.
5. 31(6) 4. 42(3) 4. 19(10) 2. 85(3) 2. 65(2)
- 561 MORINITE Keystone, South Dakota.
JCPDS 11-0666.
4. 70(8) 3. 47(8) 2. 94(10) 2. 63(7) 1. 78(8)
- 562 MOSANDRITE Langesundfiord, Norway.
JCPDS 12-0540.
3. 54(4) 3. 05(10) 2. 68(4) 2. 00(5) 1. 84(4)
- 563 MOTTRAMITE Tsumeb, South West Africa.
JCPDS 12-0538.
5. 07(8) 3. 24(10) 2. 87(7) 2. 68(7) 2. 58(7)
- 564 MULLITE Synthetic material. JCPDS 15-0776.
5. 37(7) 3. 41(10) 2. 71(6) 2. 21(8) 1. 53(8)
- 565 MUSKOXITE Coppermine area, Northwest Territories. JCPDS 22-0709.
4. 62(7) 2. 63(2) 2. 31(10) 1. 74(7) 1. 54(6)
Mount not available.
- 566 NACRITE Locality unknown. JCPDS 16-0606.
7. 18(6) 4. 37(10) 4. 12(8) 3. 59(9) 2. 43(8)
- 567 NADORITE Djebel-Nador, Algeria.
JCPDS 17-0469.
3. 72(8) 2. 81(10) 2. 08(6) 2. 03(6) 1. 95(8)
- 568 NAGYAGITE Nagyag, Transylvania.
JCPDS 8-0003.
3. 02(10) 2. 81(7) 2. 43(3) 2. 08(3) 1. 83(3)
- 569 NAHCOLITE Colorado. JCPDS 21-1119.
3. 06(3) 2. 95(10) 2. 60(9) 2. 21(3) 2. 03(3)
- 570 NARSARSUKITE Igalike, Greenland.
JCPDS 11-0478.
5. 37(10) 3. 97(5) 3. 39(8) 3. 26(8) 2. 58(6)
- 571 NASONITE Franklin Furnace, New Jersey.
JCPDS 14-0328.
4. 00(5) 3. 27(7) 2. 78(10) 2. 52(6) 2. 38(5)
- 572 NATROCHALCITE Chuquicamata, Chile.
JCPDS 19-1189.
6. 50(5) 4. 80(4) 3. 44(8) 2. 79(10) 2. 52(9)
- 573 NATROJAROSITE Luning Mineral County, Nevada. JCPDS 11-0302.
5. 06(9) 3. 09(10) 3. 06(10) 2. 23(6) 1. 97(6)
- 574 NATROLITE Aussig, Bohemia. JCPDS 20-0759.
6. 51(6) 5. 87(9) 4. 35(7) 3. 16(6) 2. 85(10)
- 575 NAUMANNITE Silver City, Idaho. JCPDS 6-0501.
2. 67(10) 2. 55(10) 2. 42(4) 2. 23(6) 2. 00(6)
- 576 NEOMESSELITE Foote Quarry, North Carolina.
JCPDS 10-0389.
6. 33(10) 3. 18(10) 3. 03(8) 2. 68(9) 1. 69(6)
Mount not available.
- 577 NEPHELINE Hastings County, Ontario.
JCPDS 9-0338.
4. 21(4) 3. 87(9) 3. 28(5) 3. 03(10) 2. 91(4)
- 578 NEPTUNITE San Benito County, California.
JCPDS 14-0134.
4. 50(5) 3. 51(8) 3. 18(10) 2. 92(8) 2. 47(7)
- 579 NESQUEHONITE Nesquehoning, Pennsylvania.
JCPDS 20-0669.
6. 46(10) 3. 85(8) 3. 23(4) 3. 03(5) 2. 62(5)
- 580 NEWBERYITE Skipton Caves, Victoria, Australia.
JCPDS 20-0153.
5. 95(9) 5. 34(7) 4. 71(10) 3. 45(9) 3. 05(9)
- 581 NICKELINE Timiskaming, Ontario.
JCPDS 9-0001.
2. 66(10) 1. 96(9) 1. 81(8) 1. 50(2) 1. 33(3)
- 582 NIGERITE Kalba Province, Nigeria.
JCPDS 9-0487.
2. 85(9) 2. 42(10) 1. 65(4) 1. 55(6) 1. 42(5)
- 583 NIOCALITE Oca, Quebec. JCPDS 11-0622.
3. 24(5) 3. 01(10) 2. 87(9) 1. 84(4) 1. 70(4)
- 584 NISSONITE Panoche Valley, California.
Mrose, M.E. *et. al.*, (1967):
Amer. Mineral. 52, p. 927.
4. 40(10) 3. 72(7) 2. 77(8) 2. 53(7) 1. 86(7)
- 585 NITRE Fraser River, British Columbia.
JCPDS 5-0377.
3. 77(10) 3. 04(7) 2. 65(9) 2. 19(4) 1. 95(4)
- 586 NITROBARITE Synthetic material. JCPDS 4-0773.
4. 68(9) 4. 06(4) 2. 87(4) 2. 45(10) 2. 34(6)
- 587 NOLANITE Goldfields, Saskatchewan.
JCPDS 19-0640.
4. 66(5) 3. 44(9) 2. 64(9) 2. 47(10) 1. 50(6)
- 588 NONTRONITE Bayrischer Wald, Germany.
JCPDS 2-0008.
4. 55(10) 2. 99(2) 2. 61(8) 1. 71(2) 1. 52(9)
- 589 NORBERGITE Rudeville, New Jersey.
JCPDS 11-0686.
3. 06(10) 2. 64(7) 2. 40(4) 2. 24(8) 1. 73(8)
- 590 NORTHUPITE Borax Lake, California.
JCPDS 19-1213.
4. 96(5) 3. 22(4) 2. 70(9) 2. 48(10) 2. 11(6)
- 591 NOSEAN Rhine Province, Germany.
JCPDS 21-1099.
6. 43(3) 3. 71(10) 2. 87(2) 2. 63(3) 2. 14(3)
- 592 OFFRETITE Loire, France. JCPDS 22-0803.
5. 76(3) 4. 35(6) 3. 77(8) 2. 86(10) 2. 50(4)

- 593 OKENITE Disco Island, Greenland.
JCPDS 3-0029.
8.93(10) 7.63(6) 2.96(8) 2.83(8) 1.82(6)
- 594 OLDHAMITE Synthetic material. JCPDS 8-0464.
2.85(10) 2.01(9) 1.64(4) 1.27(5) 1.16(4)
Mount not available.
- 595 OLIVENITE Cornwall, England. JCPDS 4-0657.
5.91(7) 4.82(9) 2.98(10) 2.47(7) 2.39(7)
- OLIVINE GROUP
- 596 FAYALITE Rockport, Mass. JCPDS 20-1139.
3.55(8) 2.83(9) 2.57(7) 2.50(10) 1.78(9)
- 597 FORSTERITE Labelle County, Quebec.
JCPDS 12-1260.
3.88(6) 2.76(6) 2.52(8) 2.46(10) 1.75(9)
- 598 ONOFRITE Marysvale, Utah. JCPDS 22-0729.
3.40(10) 3.05(4) 2.09(8) 1.79(7) 1.10(5)
- 599 ORIENTITE Oriente Province, Cuba.
JCPDS 18-0941.
5.07(9) 4.40(9) 3.29(5) 3.06(5) 2.70(10)
- 600 ORPIMENT Mercur, Utah. JCPDS 19-0084.
4.84(10) 4.01(5) 2.79(5) 2.46(5) 1.75(5)
- 601 OTAVITE Tsumeb, South West Africa.
JCPDS 8-0456.
3.78(9) 2.95(10) 2.46(4) 2.07(4) 1.83(5)
- 602 OWYHEEITE Nye County, Nevada. JCPDS 5-0510.
3.49(7) 3.25(10) 2.91(5) 2.84(6) 2.05(6)
- 603 PACHNOLITE St. Peters' Dome, Colorado.
JCPDS 5-0356.
3.95(10) 3.02(4) 2.79(7) 2.17(6) 1.97(6)
- 604 PAIGEITE Riverside, California.
JCPDS 13-0572.
5.16(5) 2.57(10) 2.37(3) 2.17(3) 2.06(3)
- 605 PLYGORSKITE Five Islands, Nova Scotia.
JCPDS 5-0099.
10.28(10) 6.37(6) 4.48(8) 3.22(7) 2.56(7)
- 606 PANDERMITE East Kazakhstan, U. S. S. R.
JCPDS 10-0463.
3.62(10) 3.47(10) 2.31(8) 2.16(10) 1.93(8)
- 607 PAPAGOITE Pima County, Arizona.
JCPDS 13-0372.
4.29(9) 3.44(8) 2.88(10) 2.79(8) 2.20(9)
- 608 PARADAMITE Mapimi, Mexico. JCPDS 12-0223.
6.33(10) 3.71(10) 2.98(9) 2.83(9) 2.49(9)
- 609 PARAGUANAJUATITE Guanajuato, Mexico.
JCPDS 12-0732.
4.75(5) 3.02(10) 2.23(6) 2.06(6) 1.89(5)
- 610 PARARAMMELSBURGITE Beaverlodge, Saskat-
chewan. JCPDS 18-0876.
2.84(7) 2.55(10) 2.37(7) 1.82(6) 1.73(7)
- 611 PARATACAMITE Malpeque Bay, Prince Edward
Island. JCPDS 19-0389.
5.47(10) 2.75(9) 2.26(8) 1.81(4) 1.70(4)
- 612 PARAVAUXITE Llallagua, Bolivia.
JCPDS 14-0247.
6.30(8) 4.77(10) 3.18(9) 2.84(5) 2.58(5)
- 613 PARISITE Locality unknown. JCPDS 2-1257.
3.55(8) 2.83(10) 2.04(7) 1.95(7) 1.87(7)
- 614 PARSONITE Locality unknown. JCPDS 11-0568.
4.19(10) 3.27(9) 2.79(5) 2.13(5) 1.85(5)
Mount not available.
- 615 PARTZITE California. JCPDS 7-0303.
5.91(9) 3.08(7) 2.95(10) 1.81(8) 1.54(7)
- 616 PASCOITE Minasragra, Peru. JCPDS 21-0171.
7.30(7) 5.50(10) 5.10(8) 4.67(10) 3.01(7)
- 617 PAVONITE Cerro Boneti, Bolivia.
JCPDS 11-0323.
3.58(6) 3.47(6) 3.33(6) 2.85(10) 2.01(8)
- 618 PEARCEITE Aspen County, Colorado.
JCPDS 8-0130.
2.95(10) 2.77(9) 2.45(6) 2.30(6) 1.81(6)
Mount not available.
- 619 PECTOLITE Lake Superior, Ontario.
JCPDS 12-0238.
3.88(7) 3.28(7) 3.10(8) 2.91(10) 2.60(6)
- 620 PENDLETONITE San Benito County, California.
Murdoch, J and Geissman, T.A.
(1967): Amer. Mineral., 52, p. 616.
9.44(10) 7.44(10) 3.96(4) 3.46(6) 3.03(3)
- 621 PENROSEITE Locality unknown. JCPDS 6-0507.
2.68(10) 2.45(10) 1.81(9) 1.66(3) 1.60(4)
- 622 PENTLANDITE Algoma District, Ontario.
JCPDS 8-0090.
5.78(4) 3.04(9) 2.90(3) 1.93(5) 1.78(10)
- 623 PERICLASE Synthetic material. JCPDS 4-0829.
2.43(2) 2.11(10) 1.49(6) 1.27(2) 1.22(3)
- 624 PEROVSKITE Oka, Quebec. JCPDS 8-0091.
3.82(4) 2.71(10) 1.92(9) 1.57(8) 1.36(6)
- 625 PERRIERITE Kyoto, Japan. Ito, J. and Arem,
J.E. (1971): Amer. Mineral., 56,
p. 311.
2.96(10) 2.84(7) 2.69(6) 2.16(7) 1.95(8)

- 626 PETALITE Bernic Lake, Manitoba.
JCPDS 12-0451.
3. 73(10) 3. 67(9) 3. 52(3) 2. 98(2) 2. 06(3)
- 627 PETZITE Kalgoorlie, West Australia.
JCPDS 12-0424.
2. 77(10) 2. 44(6) 2. 32(6) 2. 12(8) 2. 03(7)
- 628 PHARMACOLITE Riechelsdorf, Germany.
Yakontova, I.K. (1968): Akad.
Nauk U. S. S. R. Min. Mus., Trudy 18,
p. 160.
3. 77(6) 3. 19(8) 3. 09(10) 2. 89(5) 1. 99(4)
- 629 PHARMACOSIDERITE Konigsburg, Hungary.
JCPDS 17-0466.
7. 97(10) 4. 60(4) 3. 99(4) 3. 25(5) 2. 81(5)
- 630 PHENAKITE Tikovaja, Siberia, U. S. S. R.
JCPDS 9-0431.
3. 65(8) 3. 12(10) 2. 51(8) 2. 36(7) 2. 19(8)
- 631 PHILLIPSITE Capo di Bore, Italy.
JCPDS 20-0923.
7. 08(5) 4. 13(6) 3. 19(10) 3. 14(6) 2. 70(6)
- 632 PHOSGENITE Dundas, Tasmania. JCPDS 12-0218.
4. 42(7) 4. 04(5) 3. 63(8) 2. 81(10) 2. 22(5)
- 633 PHOSPHOFERRITE Hagendorf, Bavaria.
JCPDS 9-0479.
4. 27(6) 3. 20(10) 2. 73(7) 2. 65(4) 2. 41(4)
- 634 PHOSPHOSIDERITE California. JCPDS 15-0390.
4. 67(8) 4. 35(8) 3. 60(7) 2. 78(10) 2. 56(6)
- 635 PHOSPHURANYLITE Locality unknown.
JCPDS 8-0289.
7. 90(10) 5. 83(5) 3. 96(7) 3. 14(6) 2. 88(6)
- 636 PICKERINGITE Tay River Canyon, British Co-
lumbia. JCPDS 12-0299.
6. 80(2) 4. 82(10) 4. 33(9) 4. 11(8) 3. 53(9)
- 637 PICROCHROMITE Locality unknown.
JCPDS 9-0353.
4. 77(4) 2. 50(10) 2. 08(5) 1. 60(6) 1. 47(7)
- 638 PINAKIOLITE Langban, Sweden. JCPDS 12-0170.
5. 44(8) 2. 70(9) 2. 51(10) 1. 99(8) 1. 52(5)
- 639 PIRSSONITE Searles Lake, California.
JCPDS 2-1051.
5. 13(8) 2. 66(8) 2. 57(8) 2. 51(10) 2. 02(8)
- 640 PLAGIONITE Harz, Germany. JCPDS 22-1129.
3. 85(6) 3. 25(10) 2. 92(9) 2. 62(6) 2. 14(6)
- 641 PLANCHÉITE Bisbee, Arizona. JCPDS 11-0248.
4. 85(9) 4. 04(10) 3. 35(9) 3. 05(5) 2. 68(7)
- 642 PLANERITE Shady, Arkansas. JCPDS 14-0113.
6. 81(6) 4. 72(6) 3. 72(10) 3. 25(6) 2. 89(9)
- 643 PLATINUM North Saskatchewan River, Alberta.
JCPDS 4-0802.
2. 24(9) 1. 94(9) 1. 37(8) 1. 17(10) 1. 12(4)
- 644 PLATTNERITE Youlike Lode, Mullan, Idaho.
JCPDS 8-0185.
3. 50(10) 2. 80(10) 2. 48(7) 1. 86(10) 1. 28(7)
- 645 PLAYFAIRITE Madoc, Ontario. JCPDS 20-0563.
3. 49(4) 3. 38(10) 2. 97(4) 2. 80(7) 2. 09(6)
- 646 PLAZOLITE Bay of Islands, Newfoundland.
JCPDS 3-0801.
3. 04(9) 2. 71(10) 2. 49(8) 1. 96(7) 1. 62(8)
- 647 PLUMBOJAROSITE Bathurst, New Brunswick.
JCPDS 18-0698.
5. 93(9) 3. 66(4) 3. 07(10) 1. 98(5) 1. 82(7)
- 648 POLLUCITE Norway, Maine. JCPDS 15-0317.
3. 65(8) 3. 42(10) 2. 91(9) 2. 42(8) 1. 73(8)
- 649 POLYBASITE Hoelntsch, Hungary. JCPDS 8-0123.
3. 15(8) 3. 00(10) 2. 88(8) 2. 53(6) 1. 89(6)
- 650 POLYDYMITE Sudbury, Ontario. JCPDS 8-0106.
3. 34(5) 2. 85(10) 2. 36(7) 1. 82(7) 1. 67(9)
- 651 POLYHALITE Stassfurt, Germany.
JCPDS 21-0982.
5. 95(5) 3. 41(2) 3. 18(10) 2. 91(8) 2. 86(6)
- 652 PORTLANDITE Mexico. JCPDS 4-0733.
4. 90(7) 3. 11(3) 2. 63(10) 1. 93(6) 1. 80(6)
- 653 POSNJAKITE Whitehorse, Yukon.
JCPDS 20-0364.
6. 92(10) 3. 47(6) 2. 68(3) 2. 60(2) 2. 42(4)
- 654 POTASH ALUM Utah. JCPDS 7-0017.
6. 95(5) 5. 44(6) 4. 31(10) 4. 08(9) 3. 25(10)
- 655 POWELLITE Lacorne Township, Quebec.
JCPDS 7-0212.
4. 77(3) 3. 10(10) 2. 61(2) 1. 93(4) 1. 59(3)
- 656 PREHNITE West Palerron, New Jersey.
JCPDS 7-0333.
3. 48(9) 3. 29(7) 3. 08(10) 2. 56(10) 1. 77(8)
- 657 PRIDERITE West Australia. JCPDS 6-0296.
5. 07(7) 3. 20(10) 2. 23(7) 1. 89(6) 1. 58(7)
- 658 PROSOPITE St. Peters' Dome, Colorado.
JCPDS 5-0307.
4. 35(10) 2. 14(6) 1. 91(5) 1. 84(6) 1. 81(6)
- 659 PROUSTITE Cobalt, Ontario. JCPDS 11-0470.
3. 27(8) 3. 19(7) 2. 75(10) 2. 56(8) 2. 59(9)
- 660 PSEUDOBROOKITE Aranyer-Berg, Transylvania.
JCPDS 9-0182.
4. 90(5) 3. 48(10) 2. 75(8) 1. 86(3) 1. 54(4)

- 661 PSEUDOMALACHITE Lebethen, Hungary.
JCPDS 13-0028.
4. 49(10) 3. 46(6) 2. 43(7) 2. 39(7) 2. 32(6)
- 662 PSILOMELANE Virginia. Berry, L.G. and
Thompson, R.M. (1962): Geol.
Soc. Amer., Mem. 85, p. 199.
2. 40(10) 2. 18(5) 1. 83(6) 1. 54(6) 1. 40(4)
- 663 PUCHERITE Schneeberg, Saxony.
JCPDS 12-0293.
4. 65(5) 3. 98(5) 3. 50(10) 2. 99(5) 2. 70(10)
- 664 PUMPELLYITE Calumet and Hecla Mine, Michigan.
JCPDS 10-0447.
3. 79(5) 2. 90(10) 2. 74(3) 2. 64(3) 2. 45(3)
- 665 PYRARGYRITE Pribram, Hungary.
JCPDS 21-1173.
3. 34(8) 3. 22(9) 2. 78(10) 2. 57(8) 2. 54(8)
- 666 PYRITE Elba, Italy. JCPDS 6-0710.
2. 71(9) 2. 42(7) 2. 21(6) 1. 91(4) 1. 63(10)
- 667 PYROAURITE Eastern Townships, Quebec.
JCPDS 14-0293.
7. 76(10) 3. 90(8) 2. 62(5) 2. 33(6) 1. 97(8)
- 668 PYROCHLORE Blue River, British Columbia.
JCPDS 17-0746.
6. 03(3) 3. 01(10) 2. 61(4) 1. 84(8) 1. 57(7)
- 669 PYROCHROITE Sweden. Bircker, O. (1965):
Amer. Mineral., 50, p. 1300.
4. 96(2) 4. 65(10) 2. 46(2) 2. 36(2) 1. 81(1)
- 670 PYROLUSITE India. JCPDS 12-0716.
3. 11(10) 2. 40(5) 1. 63(6) 1. 56(5) 1. 44(5)
- 671 PYROMORPHITE Roughton Gill, England.
JCPDS 19-0701.
4. 13(5) 3. 27(4) 2. 96(10) 2. 88(6) 2. 06(5)
- 672 PYROPHYLLITE Cape Breton Island, Nova Scotia.
JCPDS 3-0574.
4. 44(9) 3. 07(10) 2. 56(6) 2. 42(7) 1. 49(6)
- 673 PYROSMALITE Nordmark, Sweden.
JCPDS 12-0268.
7. 14(5) 3. 51(5) 2. 69(10) 2. 25(7) 1. 84(5)
- PYROXENE GROUP
- 674 AUGITE Bilim, Austria. JCPDS 3-0623.
3. 00(10) 2. 90(7) 2. 53(9) 1. 63(5) 1. 42(3)
- 675 ENSTATITE Mine field, Maryland.
JCPDS 22-0714.
3. 17(10) 2. 98(6) 2. 88(9) 2. 52(6) 1. 49(4)
- 676 JADEITE Kazakhstan, U. S. S. R.
JCPDS 2-0723.
2. 94(10) 2. 84(8) 2. 50(9) 2. 43(6) 1. 38(6)
- ACMITE Narsarsuk, Greenland.
DIOPSIDE Piedmont, Italy.
HEDENBERGITE Rockport, Massachusetts.
HYPERSTHENE Labrador.
JEFFERSONITE Franklin, New Jersey.
MALACOLITE Sing Sing, New York.
OMPHACITE Huntington, Indiana.
- 677 PYROXMANGITE Shidara, Japan. JCPDS 12-0432.
3. 12(5) 2. 95(10) 2. 67(7) 2. 21(5) 2. 19(6)
- 678 PYRRHOTITE New Brunswick. JCPDS 17-0200.
2. 98(8) 2. 64(8) 2. 07(10) 1. 73(9) 1. 32(5)
- 679 QUARTZ Locality unknown. JCPDS 5-0490.
4. 27(5) 3. 35(10) 1. 81(4) 1. 54(3) 1. 38(5)
- 680 QUENSELITE Langban, Sweden. JCPDS 22-0658.
3. 62(8) 3. 05(10) 2. 72(5) 2. 00(4) 1. 69(6)
- 681 RALSTONITE Ivigtut, Greenland.
JCPDS 18-1085.
5. 75(10) 3. 01(6) 2. 87(6) 1. 91(6) 1. 76(8)
- 682 RAMMELSBERGITE Beaverlodge, Saskatchewan.
Berry, L.G. and Thompson, R.M.
(1962): G.S.A. Memoir 85, p. 101.
2. 82(9) 2. 56(10) 2. 48(8) 1. 87(8) 1. 69(4)
- 683 RAMSDELLITE New Brunswick. JCPDS 7-0222.
4. 07(10) 2. 56(6) 2. 43(4) 1. 66(6) 1. 62(5)
- 684 RATHITE II Synthetic material. Berry, L.G.
and Thompson, R.M. (1962):
G.S.A. Memoir 85, p. 153.
3. 39(8) 2. 98(10) 2. 77(9) 2. 34(8) 2. 09(8)
Mount not available.
- 685 RAUVITE Locality unknown. JCPDS 8-0288.
5. 83(7) 3. 38(4) 2. 95(10) 2. 22(4) 1. 70(4)
- 686 REALGAR Felsobanya, Hungary. JCPDS 9-0441.
5. 40(10) 3. 18(9) 2. 94(8) 2. 72(8) 1. 86(6)
- 687 RENARDITE Shinkolobwe, Katanga.
JCPDS 11-0215.
7. 97(7) 4. 33(9) 3. 87(8) 3. 10(10) 2. 87(8)
- 688 RENIERITE Tsumeb, South West Africa.
JCPDS 9-0424.
3. 06(10) 2. 65(3) 1. 87(9) 1. 60(6) 1. 21(3)
- 689 RETGERSITE Algoma District, Ontario.
JCPDS 8-0470.
4. 64(3) 4. 57(4) 4. 25(10) 2. 96(2) 2. 72(2)

- 690 RHODESITE Kimberley, South Africa.
JCPDS 19-1040.
6. 60(10) 5. 95(6) 4. 43(7) 3. 05(9) 2. 88(7)
- 691 RHODIZITE Madagascar. JCPDS 18-0327.
3. 27(5) 2. 98(10) 2. 44(5) 2. 20(3) 2. 11(5)
- 692 RHODOCHROSITE Butte, Montana. JCPDS 7-0268.
3. 66(3) 2. 85(10) 2. 17(3) 2. 01(3) 1. 77(5)
- 693 RHODONITE Franklin Furnace, New Jersey.
JCPDS 13-0138.
3. 34(3) 3. 10(7) 2. 97(9) 2. 89(8) 2. 76(10)
- 694 RINKITE Kangerdluarsuk, Greenland.
JCPDS 12-0582.
3. 07(10) 2. 94(4) 2. 70(4) 1. 86(6) 1. 68(5)
- 695 ROBINSONITE Red Bird Mine, Nevada.
JCPDS 21-1018.
3. 95(6) 3. 74(7) 3. 41(9) 3. 04(8) 2. 78(10)
- 696 ROCKBRIDGEITE Rockbridge County, Virginia.
JCPDS 8-0159.
3. 58(4) 3. 40(5) 3. 19(10) 2. 41(4) 1. 60(5)
- 697 ROMÉITE Piedmont, Italy. JCPDS 7-0066.
5. 91(6) 2. 97(10) 1. 82(9) 1. 55(9) 1. 18(5)
- 698 RÖMERITE Klausen, Tyrol, Austria.
JCPDS 13-0530.
5. 06(5) 4. 80(10) 4. 04(9) 3. 15(2) 2. 39(2)
- 699 ROSENBUSCHITE Langesourdsfiord, Norway.
JCPDS 14-0447.
3. 96(5) 3. 06(9) 2. 96(10) 2. 48(4) 1. 90(4)
- 700 ROZENITE Manitoba. JCPDS 16-0699.
5. 47(9) 4. 47(10) 3. 97(7) 3. 40(6) 2. 96(5)
- 701 RUTHERFORDINE Goldfields, Saskatchewan.
JCPDS 11-0263.
4. 60(10) 4. 29(10) 3. 90(10) 3. 21(10) 2. 63(7)
- 702 RUTILE Ottawa County, Quebec.
JCPDS 21-1276.
3. 25(10) 2. 49(5) 2. 19(3) 1. 69(9) 1. 62(2)
- 703 SAFFLORITE Timiskaming, Ontario.
JCPDS 20-0330.
2. 59(10) 2. 42(2) 2. 36(7) 1. 85(7) 1. 64(6)
- 704 SAKHAITE Siberia, U. S. S. R. JCPDS 19-1112.
5. 16(4) 2. 58(10) 2. 11(7) 1. 82(5) 1. 49(4)
- 705 SAKURAIITE Japan. JCPDS 21-0882.
5. 37(1) 3. 14(10) 2. 71(2) 1. 93(8) 1. 64(6)
- 706 SAL-AMMONIAC Vesuvius, Italy. JCPDS 7-0007.
3. 87(4) 2. 74(10) 1. 94(2) 1. 73(1) 1. 59(4)
- 707 SALÉEITE Scheeberg, Saxony, Germany.
JCPDS 8-0313.
4. 96(10) 3. 49(9) 2. 92(2) 2. 45(3) 2. 20(6)
Mount not available.
- 708 SAMARSKITE Setesdalen, Norway.
JCPDS 2-0690.
2. 98(10) 2. 59(5) 1. 90(7) 1. 82(8) 1. 56(8)
- 709 SANBORNITE Mariposa County, California.
JCPDS 11-0170.
3. 97(10) 3. 40(6) 3. 34(7) 3. 09(8) 2. 72(8)
- 710 SAPONITE Hogg Island, Prince Edward Island.
JCPDS 6-0002.
4. 55(6) 3. 10(6) 2. 62(5) 1. 74(4) 1. 54(10)
- 711 SAPPHIRINE Bay St. Paul, Quebec.
JCPDS 19-0750.
3. 00(6) 2. 45(10) 2. 03(10) 1. 44(8) 1. 42(7)
- 712 SARCOLITE Mount Somma, Vesuvius, Italy.
JCPDS 17-0754.
4. 83(5) 3. 34(8) 2. 94(6) 2. 85(7) 2. 75(10)
- 713 SARCOPSIDE Deering, New Hampshire.
JCPDS 18-0642.
6. 06(8) 3. 93(8) 3. 53(10) 3. 03(9) 2. 83(6)
- 714 SARKINITE Langban, Sweden. JCPDS 14-0214.
6. 00(6) 3. 48(6) 3. 29(7) 3. 17(10) 3. 04(10)
- 715 SARTORITE Binnenthal, Switzerland.
JCPDS 11-0076.
3. 48(10) 2. 94(8) 2. 75(10) 2. 63(6) 2. 33(7)
- 716 SASSOLITE Tuscany, Italy. JCPDS 9-0335.
6. 07(8) 3. 18(10) 2. 24(4) 2. 09(2) 1. 59(2)
- 717 SCAPOLITE Hastings County, Ontario.
JCPDS 14-0170.
3. 83(6) 3. 47(10) 3. 07(9) 2. 69(6) 1. 95(5)
- 718 SCAWTITE Riverside County, California.
JCPDS 12-0777.
3. 02(10) 2. 77(4) 2. 50(5) 2. 24(5) 1. 89(6)
- 719 SCHAIRERITE Trona, California.
JCPDS 16-0165.
3. 79(8) 3. 52(9) 3. 01(8) 2. 75(10) 1. 76(9)
- 720 SCHEELITE British Columbia. JCPDS 7-0210.
4. 77(7) 3. 10(10) 2. 62(3) 1. 93(5) 1. 59(5)
- 721 SCHIRMERITE Clear Creek County, Colorado.
JCPDS 11-0063.
3. 27(7) 2. 80(10) 2. 03(4) 1. 96(6) 1. 70(6)
- 722 SCHIZOLITE Ilimaussag, Greenland. Schaller,
W. T. (1955): Amer. Mineral., 40,
p. 1024.
3. 23(7) 3. 04(8) 2. 88(10) 2. 68(4) 2. 14(5)

- 723 SCHOEPITE Locality unknown. Frondel, C. (1964): U. S. G. S. Bull. 1064, p. 78. 7.25(10) 3.63(8) 3.24(10) 2.57(4) 2.04(4)
- 724 SCHOLZITE Blinman, South Australia. JCPDS 13-0445. 8.50(10) 4.29(5) 2.80(6) 2.26(4) 1.90(3)
- 725 SCHREIBERSITE Edmonton, Kentucky. JCPDS 16-0707. 2.19(10) 2.13(4) 2.11(5) 2.02(4) 1.97(9)
- 726 SCHRÖCKINGERITE Locality unknown. JCPDS 8-0397. 8.45(7) 7.25(10) 4.80(8) 4.17(6) 2.89(7)
- 727 SCOLECITE Megantic County, Quebec. JCPDS 21-0831. 6.61(5) 5.88(7) 4.67(5) 4.42(7) 2.88(10)
- 728 SCORODITE Minas Geraes, Brazil. JCPDS 18-0654. 5.61(9) 4.50(10) 3.19(7) 3.05(5) 2.59(7)
- 729 SELENIUM Locality unknown. JCPDS 6-0362. 3.79(5) 3.00(10) 2.08(3) 2.00(2) 1.77(2)
- 730 SEMSEYITE Kisbanya, Hungary. JCPDS 22-1130. 3.85(8) 3.38(8) 3.28(10) 2.97(9) 2.87(5)
- 731 SENARMONTITE Algeria. JCPDS 5-0534. 6.42(2) 3.22(10) 2.79(4) 1.96(4) 1.68(4)
- 732 SENGIERITE Katanga. JCPDS 8-0398. 4.91(10) 3.74(6) 3.20(7) 3.18(7) 2.57(6)
Mount not available.
- SERPENTINE GROUP
- 733 ANTIGORITE Yukon. JCPDS 21-0963. 7.25(9) 3.62(10) 2.52(9) 2.43(2) 2.16(2)
- 734 CHRYSOTILE Thetford, Quebec. JCPDS 10-0380. 7.32(10) 4.56(5) 3.67(9) 2.50(8) 1.54(7)
- 735 SHATTUCKITE New Cornelia Mine, Arizona. JCPDS 13-0507. 4.95(7) 4.44(10) 3.50(7) 3.31(8) 1.80(6)
- 736 SHORTITE Wyoming. JCPDS 21-1348. 5.91(5) 5.54(6) 4.95(6) 2.56(10) 2.00(6)
- 737 SIDERITE Keno Hill, Yukon. JCPDS 8-0133. 3.59(6) 2.79(10) 2.13(5) 1.96(6) 1.74(9)
- 738 SIDEROTIL Synthetic material. JCPDS 22-0357. 5.61(9) 4.89(10) 3.73(6) 3.21(6) 2.69(6)
Mount not available.
- 739 SIEGENITE Werner Lake, Ontario. JCPDS 11-0068. 3.34(6) 2.85(10) 2.36(7) 1.81(7) 1.67(9)
- 740 SILLIMANITE Georgian Bay, Ontario. JCPDS 10-0369. 3.37(10) 2.67(7) 2.53(9) 2.21(9) 1.52(8)
- 741 SILVER Galena Hill, Yukon. JCPDS 4-0783. 2.36(10) 2.04(3) 1.44(3) 1.23(3) 1.18(3)
- 742 SIMPSONITE Brazil. JCPDS 15-0705. 2.84(8) 2.13(8) 1.64(10) 1.39(9) 1.22(2)
- 743 SJOGRENITE Eastern Townships, Quebec. JCPDS 14-0281. 7.76(10) 3.89(9) 2.64(3) 2.20(3) 1.86(4)
Mount not available.
- 744 SKLODOWSKITE Katanga. JCPDS 8-0447. 8.12(8) 5.91(10) 4.17(10) 3.27(7) 2.99(7)
- 745 SKUTTERUDITE Haileybury, Ontario. JCPDS 10-0497. 2.62(10) 2.20(6) 1.84(9) 1.69(6) 1.62(9)
- 746 SLAVIKITE Stavelot, Belgium. JCPDS 20-0679. 8.85(10) 5.83(8) 3.47(8) 2.94(8) 2.70(5)
- 747 SMITHSONITE Broken Hill, Australia. JCPDS 8-0449. 3.56(6) 2.75(10) 2.34(4) 1.95(4) 1.71(8)
- 748 SODALITE Ice River, British Columbia. JCPDS 20-1070. 6.30(9) 3.63(10) 2.56(7) 2.38(7) 2.10(9)
- 749 SODA NITER Chile. JCPDS 7-0271. 3.04(10) 2.53(1) 2.31(4) 2.13(1) 1.94(4)
- 750 SODDYITE Locality unknown. JCPDS 12-0180. 6.28(9) 4.48(9) 3.35(10) 2.71(7) 2.48(7)
- 751 SORBYITE Madoc, Ontario. JCPDS 20-0564. 4.10(9) 3.43(10) 3.04(4) 2.96(5) 2.08(5)
- 752 SPANGOLITE Locality unknown. JCPDS 5-0142. 7.10(10) 3.58(4) 2.66(5) 2.57(8) 2.35(6)
- 753 SPENCERITE Salmo, British Columbia. JCPDS 13-0195. 9.00(8) 4.60(8) 3.49(10) 2.34(6) 1.53(8)
- 754 SPENCITE Cranberry Lake, New Jersey. JCPDS 14-0138. 4.03(5) 2.80(10) 2.70(4) 1.93(4) 1.83(4)
- 755 SPERRYLITE Sudbury Ontario. JCPDS 9-0452. 3.44(6) 2.98(6) 2.11(6) 1.80(10) 1.15(7)
- 756 SPHAEROCOBAULTITE Boleo, Mexico. JCPDS 11-0692. 3.59(8) 2.78(10) 2.12(7) 1.95(7) 1.72(9)

- 757 SPHALERITE Cumberland, England.
JCPDS 5-0566.
3.12(10) 2.70(2) 1.91(6) 1.63(4) 1.24(3)
- 758 SPHENE Lake Clear, Ontario.
JCPDS 11-0142.
3.23(9) 2.99(8) 2.60(10) 2.06(4) 1.64(4)
- 759 SPINEL Ceylon. JCPDS 21-1152.
2.86(4) 2.44(10) 2.02(6) 1.55(5) 1.43(6)
- 760 SPODUMENE Ungava District, Quebec.
JCPDS 9-0468.
4.21(6) 2.93(10) 2.80(8) 2.45(5) 1.57(7)
- 761 SPURRITE Durango, Mexico. JCPDS 13-0496.
3.80(6) 3.03(3) 2.70(10) 2.64(8) 1.90(6)
- 762 STANNITE Cornwall, England. JCPDS 11-0062.
3.13(10) 2.71(2) 1.92(7) 1.64(4) 1.63(2)
- 763 STAUROLITE Pizzo Forno, Italy.
JCPDS 15-0397.
3.00(8) 2.69(8) 2.37(10) 1.51(7) 1.39(10)
- 764 STEENSTRUPINE Kangerdluarsuk, Greenland.
JCPDS 14-0211.
4.70(5) 4.19(7) 3.29(5) 3.08(10) 2.87(10)
- 765 STEIGERITE Monument Valley, Arizona.
Ankinovich, E.A. (1962): Proc. All
Sov. Min. Soc., 91, p. 311.
5.86(6) 3.04(10) 2.76(5) 2.57(5) 2.04(9)
- 766 STEPHANITE Keno Hill, Yukon. JCPDS 11-0108.
3.08(10) 2.89(8) 2.59(9) 2.13(5) 1.84(5)
- 767 STERRYITE Madoc, Ontario. JCPDS 20-0562.
3.68(8) 3.26(10) 2.84(7) 2.33(6) 2.04(6)
- 768 STIBICONITE Durango, Mexico. JCPDS 10-0388.
5.95(9) 3.08(8) 2.96(10) 1.81(8) 1.55(8)
- 769 STIBNITE Lake George, New Brunswick.
JCPDS 16-0474.
5.05(6) 3.56(10) 3.05(9) 2.76(9) 1.93(9)
- 770 STICHTITE Dundas, Tasmania. JCPDS 14-0330.
7.80(10) 3.92(5) 2.59(5) 2.32(3) 1.96(3)
- 771 STILBITE King's County, Nova Scotia.
JCPDS 18-1203.
4.65(5) 4.07(10) 3.40(4) 3.04(7) 2.78(4)
- 772 STILPNOMELANE Mesabi Range, Minnesota.
JCPDS 17-0505.
4.04(9) 3.00(3) 2.71(6) 2.56(10) 2.35(4)
- 773 STISHOVITE Locality unknown. JCPDS 15-0026.
2.96(10) 2.25(5) 1.98(8) 1.53(10) 1.23(6)
- 774 STOLZITE Broken Hill, Australia.
JCPDS 8-0108.
3.24(10) 2.73(6) 2.02(8) 1.78(6) 1.66(9)
- 775 STRENGITE Pleystein, Bavaria. JCPDS 15-0513.
5.50(8) 4.96(6) 4.37(10) 3.11(7) 2.54(7)
- 776 STROMEYERITE Silver King Mine, British
Columbia. JCPDS 9-0499.
3.46(4) 3.33(5) 2.62(10) 2.03(5) 1.99(4)
- 777 STRONTIANITE Westphalia, Germany.
JCPDS 5-0418.
3.54(10) 3.45(7) 2.46(5) 2.05(7) 1.90(4)
- 778 STRUVERITE Tongafeno, Madagascar.
JCPDS 17-0543.
3.28(10) 2.52(9) 2.22(3) 1.71(10) 1.38(4)
- 779 STRUVITE Hamburg, Germany. JCPDS 15-0762.
5.90(4) 5.60(6) 4.26(10) 2.92(8) 2.69(8)
- 780 STUDTITE Katanga. JCPDS 12-0161.
7.63(10) 5.91(10) 3.22(7) 2.99(7) 2.97(5)
- 781 SULFOHALITE Locality unknown.
JCPDS 15-0668.
3.56(10) 2.91(7) 2.51(6) 1.94(6) 1.78(8)
- 782 SULPHUR Tyrol, Austria. JCPDS 8-0247.
5.75(3) 3.85(10) 3.44(4) 3.33(3) 3.21(6)
- 783 SULVANITE Australia. JCPDS 11-0104.
5.40(10) 3.12(8) 2.40(5) 1.91(10) 1.63(5)
- 784 SUSSEXITE Franklin, New Jersey.
JCPDS 13-0599.
6.32(10) 3.43(4) 2.74(8) 2.48(8) 1.79(4)
- 785 SVABITE Franklin, New Jersey.
JCPDS 19-0215.
3.99(7) 3.45(7) 2.90(10) 2.80(9) 1.87(8)
- 786 SVANBERGITE Locality unknown. JCPDS 4-0661.
5.72(7) 3.51(7) 2.97(10) 2.19(8) 1.90(7)
- 787 SYLVANITE Cripple Creek, Colorado.
JCPDS 9-0477.
3.05(10) 2.98(5) 2.25(4) 2.14(5) 1.99(5)
- 788 SYLVITE Stassfurt, Germany. JCPDS 4-0587.
3.15(10) 2.23(8) 1.83(2) 1.41(2) 1.29(2)
- 789 SYNCHISITE Narsarsuk, Greenland.
JCPDS 18-0284.
4.55(5) 3.55(9) 2.80(10) 2.06(5) 1.93(4)
- 790 SYNGENITE Kalusz, Poland JCPDS 11-0117.
5.72(6) 4.60(5) 3.16(8) 2.85(10) 2.74(4)
- 791 SZAIBELYITE Kazakhstan, U. S. S. R.
JCPDS 12-0179.
6.24(10) 2.67(9) 2.43(7) 2.21(9) 2.08(6)

- 792 SZMIKITE Synthetic material. JCPDS 14-0166.
4.90(4) 3.50(10) 3.35(3) 3.14(5) 2.59(4)
- 793 SZOMOLNOKITE Tyrol, Austria. JCPDS 21-0925.
4.80(7) 3.44(10) 3.29(3) 3.10(6) 2.52(6)
- 794 TALC Kjorstad, Norway. JCPDS 19-0770.
4.60(10) 3.12(10) 2.61(5) 2.48(8) 1.53(9)
- 795 TANTEUXENITE Eleys, West Australia. DePol,
C. and Vescovi Minutti, L. (1967):
Rend. Soc. Min. Italiana, 23, p. 40.
2.93(10) 2.54(5) 1.80(6) 1.54(6) 1.17(3)
- 796 TAPIOLITE Ituri, Zaire. JCPDS 8-0181.
3.36(10) 2.59(10) 2.37(6) 1.75(10) 1.40(6)
- 797 TARBUITITE Broken Hill, Rhodesia.
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- 798 TEALLITE Montserrat, Bolivia. JCPDS 14-0618.
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- 799 TELLURBISMUTH Locality unknown.
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3.22(10) 2.37(3) 2.19(3) 1.81(2) 1.48(2)
- 800 TELLURITE Tokyo, Japan. JCPDS 9-0433.
3.72(9) 3.28(10) 3.01(6) 2.73(5) 2.30(5)
- 801 TELLURIUM Keystone Mine, Colorado.
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- 802 TENGERITE Norway. JCPDS 16-0698.
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- 803 TENNANTITE Cornwall, England.
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2.94(10) 2.55(3) 1.80(8) 1.54(5) 1.17(3)
- 804 TENORITE Vesuvius, Italy. JCPDS 5-0661.
2.52(10) 2.33(10) 1.87(3) 1.50(2) 1.38(2)
- 805 TEPHROITE Franklin Furnace, New Jersey.
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3.61(7) 2.86(10) 2.60(6) 2.56(8) 1.81(9)
- 806 TETRADYMITTE British Columbia. JCPDS 9-0447.
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- 807 TETRAHEDRITE Felsobanya, Romania.
JCPDS 11-0107.
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- 808 TETRAHEDRITE (Argentinian) Keno Hill, Yukon.
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- 809 THENARDITE Borax Lake, California.
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- 811 THOMSONITE Thetford Mines, Quebec.
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- 812 THOREAULITE Katanga. JCPDS 11-0132.
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- 813 THORIANITE Bancroft, Ontario. JCPDS 4-0556.
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- 814 THORITE Arendal, Norway. JCPDS 11-0419.
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- 815 THOROGUMMITE Baringer Hill, Texas.
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- 816 THORTVEITITE Evoje, Norway. JCPDS 19-1125.
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- 827 TRIDYMITTE San Cristobal, Mexico.
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- 828 TRIMERITE Langban, Sweden. JCPDS 17-0477.
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- 835 TSCHERMIGITE Wamsutter, Wyoming.
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- 836 TUNGSTITE Moose River, Nova Scotia.
Berry, L. G. and Thompson, R. M.
(1962): G.S.A. Memoir 85, p. 181.
5.40(10) 3.48(10) 2.64(3) 2.57(6) 1.85(3)
- 837 TURQUOIS Los Cerillas Mountains, New Mexico.
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- 838 TWINNITE Madoc, Ontario. JCPDS 20-0559.
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- 839 TYCHITE Trona, California. JCPDS 19-1212.
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- 840 TYRRELLITE Goldfields, Saskatchewan.
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- 841 TYROLITE Eureka, Utah. JCPDS 11-0348.
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- 842 TYUYAMUNITE Locality unknown. JCPDS 6-0017.
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- 843 ULEXITE Newport, Nova Scotia. Korobov, S. S.,
Malinko, S. V. and Sedlezky, V. I.
(1965): Proc. All Sov. Min. Soc.,
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7.76(6) 5.92(9) 4.33(9) 4.13(9) 2.69(10)
- 844 ULLMANNITE Terrabin, Sardinia, Italy.
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- 845 UMANGITE Sierra Umango, Argentina.
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- 846 URANINITE Various localities. JCPDS 5-0549.
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- 847 URANOPHANE Various localities. JCPDS 8-0442.
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- 848 URANOPIILITE Beaverlodge, Saskatchewan.
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- 849 URANOSPINITE Locality unknown. JCPDS 8-0320.
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- 850 UVANITE Locality unknown. JCPDS 8-0322.
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- 851 VALENTINITE Wolfe County, Quebec.
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- 852 VALLERITE Whitehorse, Yukon. Berry, L. G.
and Thompson, R. M. (1962): G.S.A.
Memoir 85, p. 61.
11.58(10) 5.70(10) 3.25(7) 1.89(6) 1.87(6)
- 853 VANADINITE Tiger Mine, Arizona.
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3.38(6) 3.07(8) 2.98(10) 1.98(4) 1.56(6)
- 854 VANDENBRANDEITE Katanga. JCPDS 8-0325.
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- 855 VANDENDRIESSCHEITE Utah. JCPDS 15-0281.
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- 856 VARISCITE Manhattan, Nevada.
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- 857 VAUXITE Llallagua, Bolivia. JCPDS 14-0210.
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- 858 VEENITE Madoc, Ontario. JCPDS 20-0560.
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- 859 VESIGNIÉITE Colorado. JCPDS 12-0519.
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- 860 VESUVIANITE Elker, Norway. JCPDS 22-0533.
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- 861 VILLIAUMITE Ile de Los, French Guinea.
JCPDS 4-0793.
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- 862 VISHNEVITE Vishnevy Mountain, Urals, U. S. S. R. Iljinsky, G. A. and Turchenko, S. I. (1965): Proc. All Sov. Min Soc. 94, p. 470.
4. 51(9) 3. 69(9) 3. 27(10) 2. 76(6) 2. 64(6)
- 863 VIVIANITE Hebrian, Maine. JCPDS 3-0070.
6. 76(10) 4. 90(4) 3. 21(5) 2. 97(6) 2. 71(6)
- 864 VLASOVITE Kola Peninsula, U. S. S. R. Tikhonenkova, R. P. and Kazakova, M. E. (1961): Doklady Akad. Nauk S. S. S. R., 137, No. 4, p. 994.
5. 04(8) 3. 23(10) 2. 96(10) 2. 17(5) 1. 94(5)
- 865 VOLBORTHITE Richardson, Utah. JCPDS 12-0523.
7. 19(10) 3. 07(4) 2. 87(7) 2. 57(7) 2. 39(6)
- 866 VOLTAITE Bisbee, Arizona. JCPDS 20-1388.
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- 867 WAGNERITE Kjorrestad, Norway. JCPDS 12-0482.
3. 29(6) 3. 12(7) 2. 99(10) 2. 84(10) 2. 74(4)
- 868 WAKEFIELDITE Wakefield Lake, Quebec. Miles, N. M., Hogarth, D. D. and Russell, D. S. (1971): Amer. Mineral., 56, p. 402.
4. 67(4) 3. 53(10) 2. 65(9) 2. 50(4) 1. 82(8)
- 869 WALPURGITE Schneeberg, Saxony, Germany. FRONDEL, C. (1958): U. S. G. S. Bull., 1064, p. 242.
5. 64(3) 5. 01(5) 3. 47(5) 3. 28(4) 3. 11(10)
- 870 WARDITE Fairfield, Utah. JCPDS 11-0330.
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- 871 WARWICKITE Orange County, New York. JCPDS 12-0171.
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- 872 WAVELLITE Montgomery County, Arkansas. JCPDS 17-0203.
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- 873 WEBERITE Ivigtut, Greenland. JCPDS 5-0733.
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- 874 WEHRLITE Hope, British Columbia. JCPDS 8-0027.
3. 22(10) 2. 36(7) 2. 19(6) 1. 81(3) 1. 49(2)
- 875 WELOGANITE Montreal, Quebec. JCPDS 21-1397.
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- 876 WHEWELLITE Dresden, Saxony. JCPDS 20-0231.
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- 877 WHITLOCKITE Palermo Mine, New Hampshire. JCPDS 13-0404.
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- 878 WILKEITE Crestmore, California. JCPDS 6-0454.
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- 879 WILLEMITE Franklin, New Jersey. JCPDS 8-0492.
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- 880 WITHERITE Porcupine, Ontario. JCPDS 5-0378.
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- 881 WITTICHENITE Schwartzwald, Germany. JCPDS 9-0488.
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- 882 WOLFRAMITE Cornwall, England. JCPDS 11-0591.
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- 883 WOLLASTONITE Labelle County, Quebec. JCPDS 10-0487.
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- 884 WOODHOUSEITE Bathurst, New Brunswick. JCPDS 4-0670.
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- 885 WULFENITE Berezov, Siberia, U. S. S. R. JCPDS 8-0475.
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- 886 WURTZITE Fairview Mine, British Columbia. JCPDS 12-0688.
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- 887 WUSTITE Locality unknown. JCPDS 6-0615.
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- 888 XANTHOCONITE Locality unknown. JCPDS 8-0134.
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- 889 XANTHOPHYLLITE Tassathal, Tyrol, Austria. JCPDS 20-0321.
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- 890 XENOTIME Valhalla, British Columbia. JCPDS 11-0254.
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- 891 XONOTLITE Table Mountain, Newfoundland. JCPDS 10-0488.
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- 892 YODERITE Kongwa, Tanganyika. JCPDS 12-0625.
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- 893 YTTROFLUORITE Locality unknown. JCPDS 21-0159.
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- 894 ZEUNERITE Synthetic material. JCPDS 4-0090.
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- 895 ZINC Keno Hill, Yukon. JCPDS 4-0831.
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- 896 ZINCITE Franklin, New Jersey. JCPDS 5-0664.
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- 899 ZIRCON Blue River, British Columbia.
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- 900 ZOISITE Ducktown, Tennessee.
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8.12	8	5.91	10	4.17	10	3.27	7	2.99	7	SKLODO	744
8.09	10	6.23	6	3.66	5	3.17	3	2.73	4	DRESSE	267
8.01	7	8.62	6	3.14	10	2.98	7	2.19	6	HUREAU	417
7.97	10	6.86	5	3.41	6	3.05	4	2.77	5	CAVANS	164
7.97	10	4.60	5	3.25	10	3.02	5	2.87	10	BERYL	91
7.97	10	4.60	4	3.99	4	3.25	5	2.81	5	PHARSI	629
7.97	7	4.33	9	3.87	8	3.10	10	2.87	8	RENARU	687
7.97	7	4.19	10	2.84	6	2.67	9	1.63	7	ZUNYIT	901
7.97	10	3.24	9	2.74	9	2.50	7	2.28	10	CONNEL	214
7.95	10	3.27	7	2.74	9	2.29	10	1.62	8	BUTTGE	144
7.92	10	8.59	8	5.31	5	3.27	4	3.14	4	HOHMAN	409
7.91	10	4.63	5	3.60	8	3.23	5	3.09	6	DUNDAS	271
7.90	10	5.83	5	3.96	7	3.14	6	2.88	6	PURANY	635
7.90	10	5.80	5	4.24	10	2.59	5	1.97	5	HELLIT	524
7.90	10	5.68	10	5.23	9	4.31	10	3.68	6	ANDERS	30
7.90	10	4.77	5	3.95	5	3.00	4	2.91	4	UPHANE	847
7.90	10	3.96	9	2.63	6	2.35	7	2.00	7	BRUGNA	137
7.90	10	3.95	9	2.88	5	2.44	4	2.29	4	HYCALU	420
7.90	7	3.14	9	2.71	9	2.56	10	2.13	8	AFENIG	101
7.86	7	4.20	10	3.46	10	3.35	10	2.49	9	BKITA	3
7.83	10	3.87	6	3.52	6	3.19	6	2.57	4	UPHANB	97
7.80	10	3.92	5	2.59	4	2.32	3	1.96	3	STICHT	770
7.76	6	5.92	9	4.33	9	4.13	9	2.69	10	ULEXIT	843
7.76	10	3.90	8	2.62	5	2.33	6	1.97	8	PYROAU	667
7.76	10	3.89	9	2.64	3	2.20	3	1.86	4	SJOGRE	743
7.69	7	3.93	8	3.59	8	2.98	9	2.50	10	APOPHY	40
7.69	8	3.93	10	2.40	5	2.23	7	1.87	9	MANASS	507
7.63	6	8.93	10	2.96	8	2.83	8	1.82	6	OKENIT	593
7.63	10	5.91	10	3.22	7	2.99	7	1.97	5	STUOTI	780
7.63	10	5.07	9	3.83	8	2.88	5	2.70	5	BAYLEY	82
7.63	9	3.88	9	3.58	10	3.19	9	2.59	9	CHAPHA	183
7.63	7	3.85	10	2.57	8	2.30	7	1.95	9	HYTALC	423
7.57	10	4.24	10	3.05	8	2.93	4	2.62	5	BRUSHI	138
7.56	10	8.27	9	3.74	5	3.31	8	3.07	9	METVOL	535
7.56	10	6.15	8	4.37	6	3.87	9	3.10	7	JOHANN	441
7.56	10	4.80	9	3.85	5	3.04	7	2.79	6	INYOIT	430
7.56	10	4.27	10	3.07	7	2.87	5	2.68	4	GYPSPUM	376
7.50	10	3.43	3	3.30	3	3.02	6	2.49	8	CALUNE	153
7.44	10	9.44	10	3.96	4	3.46	6	3.03	3	PENDLE	620
7.44	10	6.19	10	3.87	9	3.18	10	2.30	9	CALLAG	151
7.44	8	4.70	6	4.21	10	3.02	9	2.82	7	CHURGH	196
7.44	10	3.73	5	3.55	5	3.21	8	2.58	3	BECCOE	84
7.44	10	3.50	8	3.18	10	2.56	4	2.04	5	BILLIE	102
7.38	7	8.67	7	5.64	10	4.76	7	3.75	11	FALUJS	284
7.38	7	8.20	10	7.08	5	3.31	4	2.75	6	HUMMER	416
7.38	10	6.56	9	3.70	8	3.25	9	2.88	5	KERNIT	451
7.34	9	3.65	6	2.64	6	2.45	6	1.53	10	GARNIE	336
7.32	10	4.56	5	3.67	9	2.50	8	1.54	7	CHRYSO	734
7.31	9	8.76	18	3.45	6	3.31	5	2.84	5	LESKEA	493
7.31	9	4.89	8	2.71	6	2.60	10	2.12	7	DIOPTA	260
7.31	10	4.10	5	3.66	5	3.50	7	3.15	8	ZIPPEI	898
7.31	4	3.23	9	3.13	8	3.05	10	2.17	4	EMPLCC	275
7.30	7	5.50	10	5.10	8	4.67	10	3.01	7	PASCOI	616
7.26	6	4.93	7	4.23	9	3.13	9	2.71	10	GISMON	350
7.25	10	8.45	7	4.80	8	4.17	6	2.89	7	SCHROC	726

7.25

7.25

7.25	10	6.24	10	3.80	10	3.12	9	2.49	5	KALIBO	446
7.25	10	3.86	4	2.84	10	2.71	6	1.47	5	ILVAIT	428
7.25	10	3.63	8	3.24	10	2.57	4	2.04	4	SCHOEP	723
7.25	9	3.62	10	2.52	9	2.43	2	2.16	2	ANTIGO	733
7.25	10	3.56	10	3.18	10	2.53	4	1.98	5	VANDRI	855
7.20	4	10.30	10	4.80	4	3.44	4	3.07	6	BERAUN	87
7.20	10	5.36	7	3.57	6	3.29	7	2.09	8	GINORI	349
7.20	9	4.44	10	3.62	7	2.51	3	2.33	3	HALLOY	379
7.19	10	3.07	4	2.87	7	2.57	7	2.39	6	VOLBOR	865
7.18	6	4.37	10	4.12	8	3.59	9	2.43	8	NACRIT	566
7.17	9	3.60	6	2.88	6	2.56	10	1.68	5	FRIEDE	322
7.14	10	4.13	5	3.58	10	2.33	9	1.65	5	DICKIT	261
7.14	8	3.56	8	2.59	10	1.82	6	1.60	6	GREENA	367
7.14	5	3.51	5	2.69	10	2.25	7	1.84	5	PYROSA	673
7.11	10	3.55	9	2.95	8	2.01	7	1.53	7	CNOCHL	189
7.10	10	3.58	4	2.66	5	2.57	8	2.35	6	SPANGO	752
7.08	5	8.20	10	7.38	7	3.31	4	2.75	6	HUMMER	416
7.08	5	5.50	6	4.33	10	4.08	8	3.28	10	TSCHEM	835
7.08	7	4.70	9	3.53	9	2.50	7	2.32	10	COOKEI	190
7.08	10	4.65	6	3.55	10	2.46	7	1.55	8	CHAMOS	182
7.08	4	4.									

6.19

6.19 2	5.13 10	2.56 10	2.17 2	2.04 3	LUDWIG 497
6.19 10	3.90 8	3.10 8	2.07 5	2.04 7	HOMLIT 412
6.18 9	4.11 9	3.09 10	2.94 7	2.81 9	AJOITE 7
6.17 6	9.21 10	5.57 8	4.70 3	3.53 6	COPIAP 215
6.15 8	7.56 10	4.37 6	3.87 9	3.10 7	JOHANN 441
6.15 3	4.35 5	3.59 10	3.14 7	2.47 3	CNOCLA 201
6.15 5	4.21 10	3.24 9	3.06 9	2.92 10	KASOLI 448
6.15 6	3.68 10	3.43 5	3.28 4	2.91 8	TUROQU 837
6.15 3	3.48 5	3.08 10	2.95 7	2.79 5	DELMAY 253
6.15 10	2.28 5	2.05 4	1.83 4	1.54 4	MOLYBH 549
6.12 9	3.70 10	3.27 7	2.88 8	2.78 10	TARBUT 797
6.11 8	4.72 6	3.24 10	3.11 9	1.57 7	LAZULI 472
6.11 10	4.33 10	2.97 6	2.87 6	2.72 8	EPISTO 281
6.11 10	3.16 7	2.36 7	1.85 7	1.32 2	BOEHMI 111
6.10 6	8.18 10	4.82 7	4.10 10	2.97 8	CUSKLO 239
6.09 10	2.71 7	2.34 6	2.19 6	1.58 7	MOLYBO 550
6.08 2	4.82 10	4.33 9	4.11 8	3.53 9	PICKER 636
6.07 8	3.18 10	2.24 4	2.09 2	1.59 2	SASSOL 716
6.06 8	3.93 8	3.53 10	3.03 9	2.83 6	SARCOPI 713
6.03 9	6.52 10	3.91 4	3.01 9	2.70 5	LIROCO 489
6.03 3	3.01 10	2.61 4	1.84 8	1.57 7	PYROCH 668
6.01 9	3.50 10	3.00 10	2.81 10	1.85 8	BASSAN 76
6.00 8	5.47 7	3.87 7	3.72 6	3.58 10	MELAPH 521
6.00 6	3.48 6	3.29 7	3.17 10	3.04 10	SARKIN 714
5.99 7	5.06 8	3.69 9	2.85 10	2.52 6	MALACH 506
5.99 8	3.66 7	3.08 10	2.26 7	1.98 7	BEUDAN 99
5.98 6	3.01 10	1.84 8	1.57 8	1.19 7	MICROL 540
5.97 8	5.45 10	4.94 6	4.31 6	2.87 6	VAUKIT 857
5.95 6	6.60 10	4.43 7	3.05 9	2.88 7	RHODES 690
5.95 9	5.34 7	4.71 10	3.45 9	3.05 9	NFWBER 580
5.95 5	3.41 2	3.18 10	2.91 8	2.86 6	POLYHA 651
5.95 9	3.08 8	2.96 10	1.85 8	1.58 7	STIDIC 768
5.94 5	7.00 10	5.8 6	4.26 8	2.92 6	UPILIT 848
5.94 10	3.10 9	2.96 9	4.82 8	1.55 7	FITUNG 307
5.93 8	4.75 5	4.44 7	3.23 5	2.93 10	GONNAR 358
5.93 9	3.66 4	3.87 10	1.98 5	1.82 7	PRJARO 647
5.92 9	7.76 6	4.33 9	4.13 9	2.69 10	ULEXIT 843
5.91 10	8.12 8	4.17 10	3.27 7	2.99 7	SKLODO 744
5.91 10	7.63 10	3.22 7	2.99 7	1.97 5	STUODI 780
5.91 5	5.54 6	4.95 6	2.56 10	2.00 6	SHORTI 736
5.91 7	4.82 9	2.98 10	2.47 7	2.39 7	OLIVEN 595
5.91 6	4.70 10	3.88 6	3.68 8	1.88 7	BASALU 75
5.91 10	3.65 8	2.97 6	2.49 3	2.35 6	WHEMEL 876
5.91 9	3.08 7	2.95 10	1.81 8	1.54 7	PARTZI 615
5.91 6	2.97 10	1.82 9	1.55 9	1.18 5	ROMEIT 697
5.91 4	2.97 10	2.24 5	1.72 5	1.49 4	UVANIT 850
5.90 4	5.60 6	4.26 10	2.92 8	2.69 8	STRUVI 779
5.88 7	0.61 3	4.87 5	4.42 7	2.88 10	SCOLEC 727
5.88 5	5.07 6	2.95 9	2.89 9	1.78 10	WEBERI 873
5.87 9	6.51 6	4.35 7	3.16 6	2.85 10	NATROL 574
5.87 5	3.99 10	3.72 5	3.52 9	3.15 3	FERRIE 305
5.87 10	3.60 4	3.95 10	1.29 4	1.95 4	BEAVER 83
5.87 5	3.62 10	3.28 6	3.04 8	2.37 8	LEONIT 478
5.86 7	6.46 5	4.67 4	4.37 7	2.86 10	MESOLI 529
5.86 6	3.04 10	2.76 5	2.57 5	2.04 9	STEIGE 765
5.85 10	5.07 8	3.45 8	3.22 8	2.09 9	DUMORT 270
5.83 8	8.85 10	3.47 8	2.94 8	2.70 5	SLAWIK 746
5.83 5	7.90 10	3.96 7	3.14 6	2.88 6	PURANY 635
5.83 10	6.42 4	3.31 3	2.91 9	2.15 5	HYMAGS 422
5.83 3	5.10 6	3.10 10	1.99 4	1.82 4	AMJARO 23
5.83 7	3.38 4	2.95 10	2.22 4	1.70 4	RAUVIT 685
5.82 6	4.51 6	3.38 10	3.05 7	2.92 9	BARYLI 73
5.81 10	3.87 8	3.38 3	2.63 3	2.56 3	KOLOVR 456
5.80 5	7.90 10	4.24 10	2.59 5	1.97 5	HELLIT 524
5.80 4	4.81 10	3.71 3	2.91 5	2.63 10	LIBETH 485
5.79 4	4.15 6	2.88 8	2.60 10	1.61 7	CAVBOL 148
5.79 8	3.92 9	3.48 10	3.07 8	2.16 9	CREEDE 229
5.79 8	3.34 5	3.18 10	2.69 5	2.01 6	CLARKE 199
5.78 4	3.04 9	2.90 3	1.93 5	1.78 10	PENTLA 622
5.76 3	4.35 6	3.77 8	2.86 10	2.50 4	OFFRET 592
5.75 4	3.90 10	2.89 10	2.85 5	1.81 5	FYLIND 243
5.75 3	3.85 10	3.44 4	3.33 3	3.21 6	S 782
5.75 10	3.75 10	3.87 6	3.91 6	1.83 8	RALSTO 681
5.73 9	4.34 7	3.20 7	2.98 9	2.86 10	EUODIL 288
5.73 10	5.08 5	3.41 3	3.05 6	2.62 10	CARPHI 159
5.72 6	4.60 5	3.16 8	2.85 10	2.74 4	SYNGEN 790
5.72 7	3.51 7	2.97 10	2.19 8	1.90 7	SVANBE 786
5.72 8	3.49 7	2.96 10	2.20 8	1.89 7	GOYAZI 361
5.72 8	2.97 10	2.21 8	1.89 7	1.75 6	GORCEI 359
5.70 10	11.58 10	3.25 7	1.89 6	1.87 6	VALLER 852
5.70 9	3.49 5	2.96 10	2.22 7	1.89 5	HINSDA 407
5.68 6	8.80 10	3.26 6	2.96 7	2.78 9	ASSIDE 44
5.68 10	7.90 10	5.23 9	4.31 10	3.68 6	ANDERS 30
5.68 7	4.58 9	3.86 10	2.97 8	2.53 4	TENGER 802
5.66 10	3.38 4	2.79 8	2.60 4	1.99 5	DAWSON 251
5.66 3	3.10 10	2.71 3	1.90 6	1.61 5	LAUITO 469
5.64 5	10.16 9	5.81 6	4.21 10	3.36 4	GCYANO 155
5.64 10	8.67 7	7.38 7	4.76 7	3.75 10	FAUJAS 294
5.64 3	5.01 5	3.47 5	3.28 4	3.11 10	MALPUR 869
5.64 9	3.85 8	3.13 10	2.55 8	2.01 7	COLEMA 208
5.62 5	8.58 8	3.44 9	3.23 10	2.59 6	HAVELL 872
5.61 9	4.89 10	3.73 6	3.21 6	2.69 6	SIDETI 738
5.61 9	4.80 10	3.19 7	3.05 5	2.59 7	SCOROD 728
5.61 9	3.43 10	2.93 7	2.70 5	1.75 6	ANALCI 26
5.60 6	5.90 4	4.26 10	2.92 8	2.69 8	STRUVI 779
5.57 6	10.16 10	5.27 6	3.88 9	3.38 6	CYANOT 242
5.57 8	9.21 10	6.17 6	4.70 3	3.53 6	COPIAP 215
5.57 9	6.85 3	3.55 10	3.40 10	3.01 5	VOLTAI 866
5.57 10	4.36 7	3.09 7	2.54 10	1.96 8	DANDYL 69
5.55 7	3.24 8	2.89 10	2.86 10	2.74 10	KFNTRYL 449
5.54 8	8.59 7	3.74 10	3.57 7	3.3 4	MTZFU 536
5.54 6	5.91 5	4.95 6	2.56 10	2.00 6	SHORTI 736
5.54 9	4.53 10	3.95 9	2.78 9	2.18 9	ANDALU 29
5.54 9	4.48 10	4.00 8	3.45 5	2.99 7	ILESIT 425
5.51 9	3.31 10	2.93 7	2.29 9	1.76 7	DIABOL 257
5.50 10	7.30 7	5.10 8	4.67 10	3.01 7	PASCOI 616
5.50 6	7.08 5	4.33 10	4.08 8	3.24 10	TSCHMI 835
5.50 8	6.76 5	4.48 10	3.96 8	2.95 9	LEONHA 477
5.50 8	5.04 10	3.71 6	2.78 8	2.16 8	GRANDO 363
5.50 8	4.96 6	4.37 10	3.11 7	2.54 7	STRENG 775
5.50 2	4.90 10	3.79 8	3.23 3	2.64 3	MELANT 522
5.50 2	3.13 3	2.99 10	2.81 6	2.13 3	XANTCO 888
5.48 6	7.00 10	5.94 5	4.26 8	2.92 6	UPILIT 849

5.47

5.47 7	6.00 8	3.87 7	3.72 6	3.58 10	MFLAPH 521
5.47 5	5.15 4	4.42 10	4.04 8	2.93 9	HEXAHY 405
5.47 8	4.93 9	3.69 10	3.50 9	3.25 7	TORBER 824
5.47 9	4.47 10	3.97 7	3.40 6	2.96 5	MOZENI 700
5.47 10	4.04 7	3.07 6	2.64 10	1.85 6	ERIOCH 283
5.47 10	2.75 9	2.26 8	1.81 4	1.70 4	PARATA 611
5.45 10	5.97 8	4.94 6	4.31 6	2.47 6	VAUKIT 857
5.44 7	8.27 10	4.60 5	3.36 6	2.76 8	COQUIM 217
5.44 6	6.95 5	4.31 10	4.08 9	3.25 10	KILLUM 654
5.44 9	4.46 10	3.93 8	3.40 5	2.95 7	APLOWI 39
5.44 8	2.70 9	2.51 10	1.99 8	1.52 5	PIYAKI 639
5.43 6	5.13 10	3.91 7	3.51 2	2.91 6	MINASR 545
5.40 10	6.81 10	4.55 6	3.33 5	2.12 6	LIEHIG 486
5.40 6	6.40 6	3.91 10	2.69 5	1.63 9	BROCHA 131
5.40 10	5.00 9	2.82 9	2.76 10	2.26 10	ATACAM 54
5.40 10	3.48 10	2.64 3	2.57 6	1.85 3	TUNGST 836
5.40 10	3.18 9	2.94 8	2.72 8	1.46 6	SFALGA 686
5.40 10	3.12 8	2.40 5	1.91 10	1.63 5	SULVAN 783
5.39 10	4.94 10	3.77 7	3.35 8	3.04 7	CUMENI 175
5.39 9	4.90 5	4.25 8	3.61 10	3.21 9	MFTURC 533
5.37 8	8.47 10	4.96 8	3.62 9	3.49 9	METAUT 530
5.37 6	6.60 8	3.10 10	2.56 6	2.40 9	HEMHO 197
5.37 6	5.11 4	4.22 10	3.80 7	2.19 4	BOUSSI 122
5.37 8	4.82 8	4.25 10	3.89 5	3.06 6	VARISC 856
5.37 5	4.23 10	3.45 3	3.28 3	2.68 4	EPSOMI 282
5.37 10	3.97 5	3.39 8	3.38 8	2.68 6	NARSAR 570
5.37 10	3.71 9	2.74 10	2.21 7	1.87 4	ARTINI 52
5.37 8	3.44 9	3.27 10	2.92 7	2.42 7	LFUCIT 480
5.37 7	3.41 10	2.71 6	2.91 8	1.53 8	MULLIT 564
5.37 1	3.14 10	2.71 2	1.43 8	1.64 6	SAKURA 705
5.36 7	7.20 10	3.57 6	3.29 7	2.09 8	STNORI 349
5.34 7	5.95 9	4.71 10	3.45 9	3.05 9	NFWBER 580
5.31 5	8.59 8	7.92 10	3.27 4	3.14 4	PIRSON 403
5.31 6	4.42 3	4.19 10	2.85 3	2.65 2	MORENO 540
5.27 6	10.16 10	5.57 6	3.88 9	3.68 6	CYANOT 282
5.27 9	4.46 10	2.98 8	2.60 5	2.04 4	VANDEN 854
5.27 7	4.08 9	3.14 9	2.92 10	2.70 7	KFRMES 450
5.26 5	3.72 5	3.03 6	2.63 10	2.14 5	JURBAN 141
5.25 4	4.40 3	2.81 10	2.42 4	1.52 4	CHILD 185
5.25 5	4.37 10	3.90 6	3.12 7	3.00 8	HASCAG 515
5.23 9	7.90 10	5.68 10	4.31 10	3.68 6	ANDERS 30
5.20 5	4.17 7	3.31 10	2.88 9	2.74 5	MLARI 542
5.18 8	2.91 10	2.32 9	2.00 7	1.55 7	CHOLI 186
5.16 6	6.97 10	4.65 5	3.47 9	3.29 4	HANNAY 384
5.16 4	2.58 10	2.11 7	1.82 5	1.49 4	SAKHAI 704
5.16 5	2.57 10	2.37 3	2.17 3	2.06 3	PAIGEI 604
5.15 4	5.47 5	4.42 10	4.04 8	3.93 9	HEXAHY 405
5.14 9	4.90 5	3.57 10	3.40 8	1.91 5	USPINI 849
5.14 9	4.45 10	3.65 8	3.25 7	2.83 7	BONATT 115
5.13 10	6.19 2	2.56 10	2.17 2	2.04 3	LUWIG 497
5.13 10	5.43 6	3.91 7	3.51 2	2.91 6	MINASR 545
5.13 8	3.66 4	3.53 10	2.53 6	2.22 3	AZURIT 64
5.11 8	2.65 8	2.57 8	2.51 10	2.32 3	PIRSON 403
5.11 3	2.53 10	2.11 4	2.02 5	1.90 4	AZOPRO 63
5.11 4	5.37 6	4.22 10	3.80 7	2.19 4	BOUSSI 122
5.10 5					

4.90

4.90	3	13.60	1	11.95	10	6.93	3	3.16	3	CALCOX	146
4.90	6	7.00	8	3.12	7	2.40	10	1.43	5	DRYPHE	235
4.90	4	6.76	10	3.21	5	2.97	6	2.71	6	VIVIAN	863
4.90	10	5.90	2	3.79	8	3.23	3	2.64	3	MELANT	522
4.90	5	5.19	9	4.25	8	3.61	10	3.21	9	MFTURC	533
4.90	5	5.14	9	3.57	10	3.40	8	1.91	5	USPINE	849
4.90	5	4.29	9	3.48	10	2.93	8	2.44	10	HETSIT	403
4.90	8	3.83	10	3.47	10	3.21	9	2.88	8	EPISIT	280
4.90	4	3.50	10	3.35	3	3.14	5	2.59	4	SZMIKI	792
4.90	5	3.48	10	2.75	8	1.86	3	1.54	4	PSDROO	660
4.90	7	3.11	3	2.63	10	1.93	6	1.80	6	PORTLA	652
4.90	9	2.99	9	2.70	8	2.46	10	1.62	9	ADAMIT	2
4.89	8	7.31	9	2.71	6	2.60	10	2.12	7	DIOPTA	263
4.89	10	5.61	9	3.73	6	3.21	6	2.69	6	SIDETI	738
4.88	10	8.51	6	3.46	10	2.96	5	2.22	6	BASSET	77
4.88	7	9.61	10	7.02	5	4.42	5	3.12	7	LAVENT	470
4.88	10	3.60	8	2.68	8	2.58	9	2.14	9	ANTLW	36
4.86	9	7.02	4	3.98	4	3.73	6	2.38	10	CUMENG	237
4.86	4	3.01	5	2.26	10	1.74	10	1.48	8	CHONDR	192
4.85	10	4.77	8	4.02	3	3.75	8	3.24	2	SIEBER	100
4.85	10	4.37	5	2.42	7	1.99	3	1.45	5	GIBBSI	347
4.85	9	4.04	10	3.35	9	3.05	5	2.68	7	PLANCH	641
4.85	6	3.65	6	2.72	7	2.62	10	1.55	8	LAWSON	471
4.85	5	3.53	6	2.86	10	2.04	5	1.91	6	BASTNA	78
4.85	6	3.35	10	3.25	5	3.17	5	2.33	4	BARDOS	71
4.84	10	4.01	5	2.79	5	2.46	5	1.75	5	ORPIME	600
4.84	10	3.41	10	3.33	10	2.57	9	2.53	9	KIESER	452
4.84	5	3.34	8	2.94	6	2.85	7	2.75	10	SARCOL	712
4.83	8	3.31	10	2.98	9	2.80	9	2.71	4	FORNAC	316
4.82	9	10.30	10	6.97	10	4.31	9	2.81	8	ARTHUR	51
4.82	3	9.61	10	3.66	2	3.27	3	2.91	4	BERMAN	88
4.82	7	8.18	10	6.10	6	4.10	10	2.97	8	CUSKLO	239
4.82	10	6.08	2	4.33	9	4.11	8	3.53	9	PICKER	636
4.82	9	5.91	7	2.98	10	2.47	7	2.39	7	OLIVEN	595
4.82	8	5.37	8	4.25	10	3.89	5	3.06	6	VARISSC	856
4.82	7	4.40	6	2.97	10	2.70	10	2.45	10	TYALLO	841
4.82	10	3.71	10	3.29	10	2.68	8	2.46	6	MICROS	541
4.82	6	2.78	10	2.51	7	2.23	6	1.86	9	MILLER	543
4.81	10	5.80	4	3.71	3	2.91	5	2.63	10	LIBETH	485
4.80	4	10.30	10	7.20	4	3.44	4	3.07	6	BERAUN	87
4.80	8	8.45	7	7.25	10	4.17	6	2.89	7	SCHROCK	726
4.80	9	7.56	10	3.85	5	3.04	7	2.79	6	INVOIT	430
4.80	4	6.50	5	3.44	8	2.79	10	2.52	9	NACHAL	572
4.80	10	5.06	5	4.04	9	3.15	2	2.39	2	ROMERI	698
4.80	10	4.60	3	4.29	7	4.11	5	3.48	10	HALOTR	380
4.80	10	4.04	5	3.50	2	3.03	2	2.44	5	HAGGIT	377
4.80	6	3.75	6	2.98	10	2.95	9	2.48	6	HUBNER	413
4.80	10	3.68	10	3.28	10	2.67	7	2.12	6	DAVYNE	250
4.80	7	3.44	10	3.29	3	3.10	6	2.52	6	SZOMLO	793
4.80	7	3.41	10	3.36	3	3.07	6	2.53	6	GUNNIN	375
4.77	5	7.90	10	3.95	5	3.00	4	2.91	4	UPHANE	847
4.77	10	6.30	8	3.18	9	2.84	5	2.50	5	PASAVA	612
4.77	6	4.85	10	4.02	3	3.76	8	3.24	2	SIEBER	100
4.77	6	3.74	6	2.95	10	2.48	7	1.72	6	WOLFRS	882
4.77	3	3.10	10	2.61	2	1.93	4	1.59	3	POHELL	655
4.77	7	3.10	10	2.62	3	1.93	5	1.59	5	SCHWEL	720
4.77	4	2.50	10	2.08	5	1.60	6	1.47	7	PIECRO	637
4.77	9	2.37	10	1.80	6	1.57	4	1.38	3	APUCIT	136
4.76	7	8.67	7	7.38	7	5.64	10	3.75	10	FAUJAS	294
4.75	10	9.41	10	2.59	9	2.34	8	2.05	7	CUPHYL	177
4.75	5	5.93	8	4.44	7	3.23	5	2.93	10	GONNAR	358
4.75	2	3.19	8	2.75	2	2.65	2	2.53	10	HINNES	547
4.75	10	3.09	9	2.99	9	2.81	6	2.59	7	WARDIT	870
4.75	5	3.02	10	2.23	6	2.06	6	1.89	5	PARAGU	609
4.75	10	3.99	9	3.71	9	3.30	6	2.76	5	CUANTH	172
4.72	6	6.81	6	3.72	10	3.25	6	2.89	9	PLANEP	642
4.72	6	6.11	8	3.24	10	3.11	9	1.57	7	LAZULT	472
4.72	9	3.55	10	2.84	5	2.67	8	1.83	7	THORIT	814
4.71	10	5.95	9	5.34	7	3.45	9	3.05	9	HEMBER	580
4.71	7	4.23	8	3.29	8	3.08	10	2.88	9	HUTTON	419
4.70	3	9.21	10	6.17	6	5.57	8	3.53	6	COPTAP	215
4.70	6	7.44	8	4.21	10	3.02	9	2.82	7	CHURCH	196
4.70	9	7.08	7	3.53	9	2.50	7	2.32	10	COOKEI	190
4.70	10	5.91	6	3.88	6	3.68	8	1.88	7	BASALU	75
4.70	5	4.19	7	3.29	5	3.08	10	2.87	10	STEFNS	764
4.70	8	3.75	7	2.94	10	2.48	6	1.72	8	FERBER	302
4.70	7	3.56	6	3.30	10	2.93	7	1.99	5	CARNAL	157
4.70	10	3.56	10	2.83	4	2.67	7	1.83	6	THGUMH	815
4.70	8	3.47	8	2.94	10	2.63	7	1.78	8	MORINI	561
4.70	7	3.42	10	2.46	7	2.28	7	1.90	8	BRANNE	125
4.69	8	5.10	6	4.33	7	3.97	5	2.76	10	HETVAU	534
4.69	9	4.06	4	2.87	4	2.45	10	2.34	6	NITRAB	586
4.67	10	7.30	7	5.50	10	5.10	8	3.01	7	PASCOI	616
4.67	5	6.61	5	5.88	7	4.42	7	2.88	10	SCOLEC	727
4.67	4	6.46	5	5.86	7	4.37	7	2.86	10	HESOLI	529
4.67	8	4.35	8	3.60	7	2.78	10	2.56	6	PSIDER	634
4.67	4	3.53	10	2.65	9	2.50	4	1.82	8	WAKEFI	868
4.67	7	3.51	10	3.33	10	2.49	6	1.88	8	AUGELI	56
4.67	4	3.41	5	2.81	5	2.63	10	1.88	4	HELLAN	394
4.66	10	3.47	10	2.78	4	2.64	9	1.80	8	COFFIN	207
4.66	5	3.44	9	2.64	9	2.47	10	1.50	6	NOLANI	587
4.65	6	7.08	10	3.55	10	2.46	7	1.55	8	CHAMOS	182
4.65	5	6.97	10	5.16	6	3.47	9	3.29	4	HANNAY	384
4.65	10	6.30	4	3.93	3	3.27	4	2.92	9	BREWST	129
4.65	6	5.10	6	4.32	4	3.97	10	2.97	9	HEULAN	404
4.65	10	4.96	2	2.46	2	2.36	2	1.81	1	PYROGG	669
4.65	5	4.07	10	3.40	4	3.04	7	2.78	4	STILBI	771
4.65	5	3.98	5	3.50	10	2.98	5	2.70	10	PUEBLO	663
4.65	10	3.52	7	3.22	7	2.82	10	2.62	8	THOMSO	811
4.65	7	3.18	5	3.07	5	2.78	10	1.86	5	THENAR	909
4.65	10	3.16	10	2.98	8	2.40	5	2.12	4	AMBYLG	21
4.64	9	6.33	6	3.22	10	2.73	6	2.56	6	CANCRIG	154
4.64	3	4.57	4	4.25	10	2.96	2	2.72	2	RETGER	689
4.64	5	7.91	10	3.60	8	3.23	5	3.09	6	OUNDAS	271
4.62	10	3.13	8	1.87	8	1.69	7	1.64	6	CALEDO	150
4.62	7	2.63	2	2.31	10	1.74	7	1.54	6	MUSKOD	565
4.60	7	9.10	9	3.12	10	2.49	7	1.61	7	LANTHA	465
4.60	8	9.00	8	3.49	10	2.34	6	1.53	8	SPENCE	753
4.60	5	8.27	10	5.44	7	3.36	6	2.76	8	COQUIM	217
4.60	5	7.97	10	3.25	10	3.02	5	2.87	10	BFYRL	91
4.60	4	7.97	10	3.99	4	3.25	5	2.81	5	PHARSIF	629
4.60	8	6.99	10	4.06	7	3.36	5	2.78	6	FIBROFI	309
4.60	3	6.20	2	3.06	10	2.84	9	2.04	6	LENGEN	476

4.60

4.60

4.60	5	5.72	6	3.16	8	2.85	10	2.74	4	SYNGEN	790
4.60	3	4.80	10	4.29	7	4.11	5	3.48	10	HALOTR	381
4.60	10	4.29	10	3.90	10	3.21	10	2.63	7	RHUTHEP	701
4.60	8	3.55	9	3.22	10	3.10	9	2.41	9	CORNHA	220
4.60	10	3.12	10	2.61	5	2.48	8	1.53	9	TALC	794
4.60	9	5.68	7	3.86	10	2.97	8	2.53	4	TENGER	892
4.60	8	3.50	7	3.21	10	2.58	9	1.80	8	CARMIN	156
4.60	5	3.43	10	2.56	10	2.15	4	1.76	8	XENOTI	890
4.60	10	3.36	7	3.16	8	2.30	8	1.93	8	GFARKS	340
4.60	7	4.64	3	4.25	10	2.96	2	2.72	2	RETGER	689
4.60	7	4.08	10	2.82	9	2.01	6	1.78	5	TORNEB	825
4.60	5	7.32	10	3.67	9	2.50	8	1.54	7	CHRYSO	734
4.60	5	3.49	5	3.14	10	1.93	4	1.81	5	VALENT	95

4.29

4.29	7	4.80	10	4.60	3	4.11	5	3.48	10
4.29	10	4.60	10	3.90	10	3.21	10	2.63	7
4.29	9	3.68	8	3.16	9	3.04	10	2.06	8
4.29	9	3.51	9	3.00	9	2.54	10	1.75	5
4.29	9	3.44	8	2.88	10	2.79	8	2.20	9
4.29	10	3.38	8	2.64	9	2.49	8	2.22	8
4.29	10	3.03	6	2.22	8	1.96	10	1.62	5
4.27	6	8.19	7	4.10	10	3.18	7	2.82	8
4.27	6	7.56	10	3.07	7	2.87	5	2.68	4
4.27	5	6.59	7	4.40	8	3.68	7	3.09	10
4.27	10	4.08	8	3.80	9	2.95	6	2.48	5
4.27	5	3.35	10	1.81	4	1.54	3	1.38	5
4.27	10	3.33	8	3.27	7	3.02	10	2.07	10
4.27	6	3.20	10	2.73	7	2.65	4	2.41	4
4.26	8	7.00	10	5.94	5	5.48	6	2.92	6
4.26	10	5.90	4	5.60	6	2.92	8	2.69	8
4.25	4	6.61	3	3.25	10	3.13	4	2.73	5
4.25	3	6.51	10	3.52	6	3.25	3	3.12	9
4.25	8	5.39	9	4.90	5	3.61	10	3.21	9
4.25	10	5.37	8	4.82	8	3.89	5	3.06	6
4.25	10	4.64	3	4.57	4	2.96	2	2.72	2
4.25	7	2.35	10	1.77	6	1.57	5	1.34	4
4.24	10	7.90	10	5.80	5	2.59	5	1.97	5
4.24	10	7.57	10	3.05	8	2.93	4	2.62	5
4.23	10	8.44	8	3.37	6	2.87	7	2.80	6
4.23	9	7.26	6	4.93	7	3.13	9	2.71	10
4.23	10	5.37	5	3.45	3	2.88	3	2.68	4
4.23	8	4.71	7	3.29	8	3.08	10	2.88	9
4.23	6	4.46	6	3.61	9	3.29	9	2.62	10
4.23	4	3.71	4	3.09	4	2.87	10	1.76	5
4.23	5	3.36	10	2.72	4	2.44	3	1.64	5
4.23	6	3.16	6	2.92	9	2.59	10	1.45	6
4.22	10	10.37	6	5.11	4	3.80	7	2.19	4
4.21	10	10.16	9	5.64	5	5.01	6	3.36	4
4.21	10	7.44	8	4.70	6	3.02	9	2.82	7
4.21	10	6.15	5	3.24	9	3.06	9	2.92	10
4.21	8	4.09	8	3.70	10	2.98	4	2.83	4
4.21	6	3.99	9	3.44	5	2.94	7	2.58	10
4.21	4	3.87	9	3.28	5	3.03	10	2.91	4
4.21	7	3.79	7	3.32	10	3.22	10	2.99	6
4.21	6	2.93	10	2.88	8	2.45	5	1.57	7
4.20	10	7.86	7	3.46	10	3.35	10	2.49	9
4.20	7	3.47	5	3.24	10	2.16	6	1.80	7
4.20	10	2.81	5	2.66	5	2.38	6	1.70	5
4.19	10	7.97	7	2.84	6	2.67	9	1.63	7
4.19	10	5.31	6	4.42	3	2.85	3	2.65	2
4.19	7	4.78	5	3.29	5	3.08	10	2.87	10
4.19	10	3.27	9	2.79	5	2.13	5	1.85	5
4.19	6	2.65	10	2.41	8	1.79	7	1.58	5
4.18	5	3.90	5	3.52	10	2.80	2	2.67	5
4.18	4	3.03	10	2.96	6	2.92	5	1.97	5
4.18	10	2.69	7	2.45	4	2.19	4	1.72	4
4.18	6	8.45	7	7.25	10	4.80	8	2.89	7
4.17	8	8.30	10	3.27	5	2.98	9	2.11	6
4.17	10	8.12	8	5.91	10	3.27	7	2.99	7
4.17	7	5.20	5	3.31	10	2.88	9	2.74	5
4.17	8	4.51	10	3.55	5	2.72	7	2.26	8
4.17	8	3.51	10	2.78	8	2.64	6	2.34	8
4.17	9	3.45	10	3.39	6	2.92	9	2.01	7
4.17	5	3.30	4	3.18	10	2.88	9	2.15	4
4.17	8	3.20	3	2.67	10	2.45	8	1.60	5
4.17	7	3.00	9	2.90	10	2.22	5	2.08	7
4.16	10	8.43	10	4.53	8	3.13	9	2.72	9
4.16	10	6.76	7	3.51	9	3.04	5	2.43	5
4.15	6	5.79	4	2.88	8	2.50	10	1.51	7
4.15	10	3.58	8	3.96	8	2.96	8	2.76	8
4.14	10	3.16	9	2.73	3	2.06	6	1.96	6
4.13	9	7.76	6	5.92	9	4.33	9	2.69	10
4.13	5	7.14	10	3.58	10	2.33	9	1.65	5
4.13	6	7.08	5	3.19	10	3.14	6	2.70	6
4.13	5	3.27	4	2.96	10	2.88	6	2.06	5
4.13	8	3.20	10	2.78	10	2.07	7	2.01	7
4.12	8	7.18	6	4.37	10	3.59	9	2.43	8
4.12	4	6.35	4	3.70	10	2.87	4	2.62	7
4.12	4	5.10	6	4.65	6	3.97	10	2.97	9
4.11	9	6.18	9	3.09	10	2.94	7	2.81	9
4.11	8	6.08	2	4.82	10	4.33	9	3.53	9
4.11	5	4.80	10	4.60	3	4.29	7	3.48	10
4.10	9	8.51	9	3.38	10	3.16	9	3.03	10
4.10	10	8.19	7	4.27	6	3.18	7	2.82	8
4.10	10	8.18	10	6.10	6	4.82	7	2.97	8
4.10	5	7.31	10	3.66	5	3.50	7	3.15	8
4.10	10	5.10	6	3.24	6	3.00	7	2.86	6
4.10	9	3.43	10	3.04	4	2.96	5	2.08	5
4.09	8	4.21	8	3.78	10	2.98	4	2.83	4
4.08	5	8.98	10	6.38	6	5.10	5	3.02	8
4.08	8	7.08	5	5.58	6	4.33	10	3.28	10
4.08	5	6.96	10	3.49	5	2.23	5	1.60	4
4.08	9	6.95	5	5.44	6	4.31	10	3.25	10
4.08	10	6.37	9	3.13	10	2.73	6	2.67	8
4.08	9	5.27	7	3.44	9	2.92	10	2.70	7
4.08	8	4.27	10	3.80	9	2.95	6	2.48	5
4.08	5	2.89	9	2.84	5	1.83	10	1.67	8
4.07	10	4.65	5	3.48	4	3.04	7	2.78	4
4.07	10	2.56	6	2.43	4	1.66	6	1.62	5
4.06	7	6.99	10	4.68	8	3.36	5	2.78	6
4.06	4	5.04	10	3.38	4	3.22	9	2.05	5
4.06	4	4.68	9	2.87	8	2.45	10	1.65	5
4.05	10	5.47	10	2.49	2	1.93	1	1.87	1
4.04	8	5.47	5	3.87	6	2.64	10	1.85	5
4.04	9	5.86	5	4.88	10	3.15	2	2.39	2
4.04	10	4.85	9	3.35	9	3.05	5	2.68	7
4.04	5	4.88	10	3.50	2	3.03	2	2.44	5
4.04	5	4.42	7	3.63	8	2.81	10	2.22	5
4.04	10	3.69	3	3.23	7	2.73	7	2.13	5
4.04	6	3.48	9	2.84	10	2.63	10	2.32	8
4.04	9	3.00	3	2.71	6	2.56	10	2.35	4
4.04	6	2.91	6	2.81	10	2.02	9	1.64	5
4.03	5	2.80	10	2.70	4	1.93	4	1.83	4
4.02	5	8.92	10	2.92	8	2.74	5	2.19	7
4.02	3	4.85	10	4.77	8	3.75	8	3.24	2
4.02	8	3.63	6	3.19	10	2.93	7	2.54	4

4.02

4.02	10	3.29	8	2.77	8	2.48	10	1.80	8
4.02	4	3.28	10	2.54	6	1.89	9	1.71	3
4.02	3	3.24	5	2.56	5	2.09	10	1.62	9
4.02	7	3.18	10	2.92	8	2.53	4	1.82	5
4.02	5	2.90	10	2.68	7	2.60	5	2.40	5
4.01	5	4.84	10	2.79	5	2.46	5	1.75	5
4.01	6	4.37	10	2.91	8	2.27	4	2.00	4
4.01	5	3.76	5	3.61	5	3.18	10	2.93	5
4.01	7	3.73	6	3.19	10	2.92	5	2.51	6
4.01	7	3.72	7	3.19	10	2.92	5	2.51	5
4.00	8	5.54	9	4.48	10	3.45	5	2.99	7
4.00	7	4.34	6	3.13	10	2.38	6	2.16	6
4.00	5	3.27	7	2.78	10	2.52	6	2.38	5
3.99	4	7.97	10	4.60	4	3.25	5	2.81	5
3.99	9	6.56	9	4.53	8	3.49	9	3.22	10
3.99	10	5.87	5	3.72	5	3.52	9	3.15	3
3.99	9	4.73	10	3.71	9	3.30	6	2.76	5
3.99	9	4.21	6	3.44	5	2.94	7	2.58	10
3.99	7	3.45	7	2.98	10	2.80	9	1.87	8
3.99	10	2.93	5	2.00	8	1.97	9	1.76	3
3.99	10	2.32	6	2.13	5	2.08	5	1.63	5
3.98	4	7.82	4	4.86	9	3.73	6	2.38	10
3.98	5	4.65	5	3.58	10	2.99	5	2.70	10
3.97	7	5.47	9	4.47	10	3.40	6	2.96	5
3.97	5	5.37	10	3.39	8	3.26	8	2.58	6
3.97	10	5.10	6	4.65	6	4.12	4	2.97	9
3.97	5	5.10	6	4.69	8	4.33	7	2.76	10
3.97	7	4.96	5	3.09	10	2.73	8	2.25	7
3.97	6	3.56	10	3.12	8	2.52	7	1.95	6
3.97	10	3.48	6	3.34	7	3.09	8	2.72	8
3.97	9	2.96	10	2.67	7	2.24	4	2.21	4
3.96	4	9.44	10	7.44	10	3.46	6	3.03	3
3.96	9	7.90	10	2.63	6	2.35	7	2.00	7
3.96	7	7.90	10	5.83	5	3.14	6	2.88	6
3.96	8	6.76	5	5.58	8	4.48	10	2.95	9
3.96	10	6.73	5	3.38	8	2.74	8	2.55	6
3.96	7	6.23	10	3.53	7	3.14	8	3.06	7
3.96	5	3.86	9	2.96	10	2.48	4	1.90	4
3.95	9	7.90	10	2.88	5				

3.80

3.80 10	4.52 4	3.13 10	2.20 5	2.12 4	HAMBER 381
3.80 9	4.27 10	4.08 8	2.95 6	2.48 5	TRIDYM 827
3.80 8	3.52 7	2.78 10	2.64 7	2.58 7	BURKEI 142
3.80 4	3.49 5	3.34 10	2.92 4	2.09 4	FIZELV 311
3.80 6	3.03 3	2.70 10	2.64 8	1.90 6	SPURRI 761
3.80 10	2.79 10	2.61 10	2.45 5	1.90 8	HANKSI 383
3.79 8	5.50 2	4.90 10	3.23 3	2.64 3	MELANT 522
3.79 7	4.21 7	3.32 10	3.22 10	2.99 6	ORTHOX 301
3.79 8	3.52 9	3.01 8	2.75 10	1.76 9	SCHAIR 719
3.79 5	3.00 10	2.08 3	2.00 2	1.77 2	SE 729
3.79 5	2.90 10	2.74 3	2.68 3	2.45 3	PUMPLE 666
3.78 6	10.20 10	3.05 9	2.92 10	2.81 5	TQBERM 822
3.78 7	3.62 7	3.38 10	2.84 7	2.79 6	DADSON 245
3.78 7	3.43 10	2.85 6	2.72 6	2.21 4	GRATON 365
3.78 9	2.95 10	2.46 4	2.07 4	1.83 5	OTAVIT 601
3.77 8	5.76 3	4.35 6	2.86 10	2.50 4	OFFRET 592
3.77 7	5.39 10	4.94 10	3.35 8	3.04 7	CUMENI 175
3.77 10	3.56 4	3.39 7	3.01 7	2.96 4	CUSIDE 179
3.77 7	3.48 7	3.00 10	2.27 7	1.73 7	LIVING 492
3.77 6	3.19 8	3.09 10	2.89 5	1.99 4	PHARMA 628
3.77 10	3.04 7	2.65 9	2.19 4	1.95 4	NITRE 585
3.77 7	2.98 8	2.72 7	2.36 6	2.01 10	AUSTIO 508
3.76 5	4.01 5	3.61 5	3.18 10	2.93 5	ANORTH 299
3.76 6	3.11 10	2.85 9	2.51 5	2.24 6	BAKERI 68
3.75 10	8.67 7	7.38 7	5.64 10	4.76 7	FAUJAS 294
3.75 9	6.65 9	4.33 5	3.57 6	2.84 10	ERIONI 284
3.75 8	4.85 10	4.77 8	4.02 3	3.24 2	BIEBER 100
3.75 6	4.08 6	2.98 10	2.95 9	2.48 6	HUBNER 443
3.75 7	4.70 8	4.94 10	2.48 6	1.72 8	FERBER 302
3.75 6	3.11 10	2.99 5	2.86 7	2.19 5	DATOLI 248
3.74 10	8.59 7	5.54 8	3.57 7	3.70 8	MFTZEU 536
3.74 5	8.27 9	7.56 10	3.31 8	3.07 9	MFTVOL 535
3.74 6	4.91 10	3.20 7	3.18 7	2.57 6	SENGIE 732
3.74 7	4.77 6	2.95 10	2.48 7	1.72 6	WOLFRA 882
3.74 6	3.95 6	3.41 9	3.04 8	2.78 10	ROBINS 695
3.74 5	3.45 6	3.30 10	2.90 10	2.76 5	ANDORI 31
3.74 10	3.20 7	3.00 10	2.70 8	2.36 7	DUFOYS 269
3.74 10	2.29 9	1.95 8	1.48 3	1.32 4	COLORA 210
3.73 5	7.44 10	3.55 5	3.21 8	2.58 3	BECOUE 84
3.73 6	7.02 4	4.86 9	3.98 4	2.38 10	CUMENG 237
3.73 6	5.61 9	4.89 10	3.21 6	2.69 6	SIDETI 738
3.73 6	4.01 7	3.19 10	2.92 5	2.51 6	LABRARI 298
3.73 10	3.94 4	2.29 6	1.95 5	1.33 3	TODRYI 431
3.73 10	3.67 9	3.52 3	2.98 2	2.06 3	PETALI 626
3.73 10	3.73 10	3.03 3	2.81 9	1.87 5	BOULAN 120
3.72 10	6.81 6	4.72 6	3.25 6	2.89 9	PLANER 642
3.72 10	6.47 1	2.88 2	2.63 4	2.15 4	HAYNE 390
3.72 6	6.00 8	5.47 7	3.87 7	3.58 10	MELAPH 521
3.72 5	5.87 5	3.99 10	3.52 9	3.15 3	FERRIE 305
3.72 5	5.26 5	3.03 6	2.63 10	2.14 5	BURBAN 141
3.72 7	4.40 10	2.77 8	2.53 7	1.86 7	NISSON 584
3.72 7	4.01 7	3.19 10	2.92 5	2.51 5	HIGHAL 296
3.72 9	3.35 10	3.23 7	3.03 8	2.57 8	BAVENI 80
3.72 10	3.31 4	2.87 4	2.74 9	1.96 3	JENITO 85
3.72 9	3.28 10	3.01 6	2.73 5	2.30 5	TELLUR 800
3.72 5	3.09 6	2.87 10	2.47 4	1.76 6	HARDYS 385
3.72 8	2.96 10	2.14 7	1.95 7	1.62 8	BITTIE 107
3.72 8	2.81 10	2.08 6	2.03 6	1.95 8	NADORI 567
3.71 10	6.43 3	2.87 2	2.63 3	2.14 3	NOSEAN 591
3.71 7	6.33 10	3.28 9	2.92 8	2.76 9	KROWNK 459
3.71 10	6.33 10	2.98 9	2.83 9	2.49 9	PARADA 608
3.71 3	5.80 4	4.81 10	2.91 5	2.63 10	LIBETH 485
3.71 6	5.50 8	5.04 10	2.74 8	2.16 8	GRANDH 363
3.71 9	5.37 10	2.74 10	2.21 7	1.87 4	ARTINI 52
3.71 10	4.82 10	3.30 10	2.68 8	2.46 6	MICRSO 541
3.71 9	4.73 10	3.99 9	3.30 6	2.76 5	CUANTH 172
3.71 10	4.35 10	2.96 10	2.35 8	2.09 7	ANCYLI 28
3.71 4	4.23 4	3.09 4	2.87 10	1.76 5	AKERMA 8
3.71 10	3.68 5	2.63 5	2.16 3	1.94 4	WITHER 880
3.71 9	3.29 10	2.92 9	2.75 6	2.08 5	MENEGH 527
3.71 9	3.27 7	3.05 10	2.91 6	2.51 7	ALLACT 11
3.71 7	2.98 7	2.70 8	2.63 8	1.85 10	GLAUCH 352
3.70 8	7.38 10	6.56 9	3.25 9	2.88 5	KERNIT 451
3.70 10	6.35 4	4.12 4	2.87 4	2.62 7	LAZURI 473
3.70 10	6.12 9	3.27 7	2.88 8	2.78 10	TARBU 797
3.70 10	6.33 10	2.98 9	2.98 4	2.93 8	CYANOC 241
3.70 5	2.76 7	2.54 6	2.26 10	1.74 10	CNOUMH 292
3.69 7	6.81 10	3.24 4	2.72 4	2.62 8	AURICH 58
3.69 9	5.99 7	5.06 8	2.85 10	2.52 6	MALACH 506
3.69 10	5.47 8	4.93 9	3.51 9	3.25 7	TORBER 824
3.69 9	4.51 9	3.27 10	2.76 6	2.64 6	VISHNE 862
3.69 3	4.04 10	3.23 7	2.73 7	2.13 5	AERINI 4
3.69 4	3.33 10	2.56 6	2.53 6	2.13 4	JOESMI 440
3.69 7	3.20 9	2.94 10	2.36 5	2.10 6	TOPAZ 823
3.69 4	3.16 10	2.83 8	2.61 6	1.82 7	BADDEL 66
3.68 6	7.90 10	5.68 10	5.23 9	4.31 10	ANDERS 30
3.68 10	7.08 4	4.37 6	3.02 5	2.64 10	BERTHI 89
3.68 7	6.59 7	4.40 8	4.27 5	3.09 10	KRAUSI 458
3.68 10	6.45 6	3.43 5	3.28 4	2.91 8	TURDUO 75
3.68 8	5.91 6	4.70 10	3.88 6	1.88 7	BASALI 241
3.68 10	4.80 10	3.28 10	2.67 7	2.12 6	DAVYNE 250
3.68 8	4.29 9	3.16 9	3.04 10	2.06 8	CORNET 219
3.68 5	3.71 10	2.63 5	2.16 3	1.94 4	HITHER 880
3.68 6	3.58 10	2.97 7	2.88 8	2.76 4	LORANO 495
3.68 8	3.26 10	2.84 7	2.33 6	2.04 6	STERRY 767
3.68 2	2.99 10	2.61 3	1.83 7	1.57 6	FTFRAS 807
3.6 9	7.32 10	4.56 5	2.50 8	1.54 7	CHRYSO 734
3.67 9	3.73 10	3.52 3	2.98 2	2.06 3	PETALI 626
3.67 4	2.99 10	2.60 3	1.83 3	1.73 3	EUXENI 291
3.66 2	9.61 10	4.82 3	3.27 3	2.91 4	BERMAN 88
3.66 5	8.09 10	6.23 6	3.17 3	2.73 4	BERSS 267
3.66 5	6.34 10	3.81 10	3.58 7	3.15 8	ZIPEKI 898
3.66 7	5.99 8	3.08 10	2.26 7	1.98 7	FEUDAN 99
3.66 4	5.93 9	3.07 10	1.98 5	1.82 7	PGJARO 647
3.66 4	5.13 8	3.53 10	2.53 6	2.22 3	AZURIT 64
3.66 7	3.40 9	3.09 10	2.99 9	1.80 7	EPIPID 278
3.66 7	3.40 10	2.92 6	2.72 9	1.74 6	HADOCI 500
3.66 10	3.19 9	2.87 9	1.96 4	1.76 3	ATKINI 6
3.66 5	2.96 10	2.51 3	1.72 5	1.46 5	COLUMB 211
3.66 3	2.85 10	2.17 3	2.01 3	1.77 5	RHODOC 692
3.65 6	7.34 9	2.64 6	2.45 6	1.53 10	GARNIE 336
3.65 8	5.91 10	2.97 6	2.49 3	2.35 6	WHEMEL 876
3.65 8	5.14 9	4.45 10	3.25 7	2.83 7	BONATT 115

3.65

3.65 6	4.85 6	2.72 7	2.62 10	1.55 8	LAWSON 471
3.65 4	4.35 5	2.79 10	2.39 6	2.30 6	HAUCHE 387
3.65 9	3.92 6	2.84 10	2.37 6	2.28 7	BEONIT 92
3.65 10	3.50 7	3.03 9	2.78 9	2.20 9	HURLBU 418
3.65 5	3.43 3	3.25 8	3.05 9	2.47 10	TRIPLI 830
3.65 8	3.42 10	2.91 9	2.42 8	1.73 8	POLLUC 648
3.65 7	3.24 8	3.08 10	2.04 9	1.95 9	XONOTL 891
3.65 8	3.12 10	2.51 8	2.36 7	2.19 8	PHENAK 630
3.64 8	4.55 8	3.32 8	2.58 10	2.40 8	CELADO 165
3.64 9	2.94 5	2.67 10	2.59 8	1.48 9	HONTIC 554
3.64 5	2.45 9	2.26 10	1.74 10	1.82 9	HUMITE 415
3.63 10	7.25 10	3.24 10	2.57 4	2.04 4	SCHOFI 723
3.63 10	6.30 9	2.58 7	2.38 7	2.11 9	SODALI 748
3.63 4	5.01 3	2.88 9	2.69 10	1.61 4	ZOISIT 900
3.63 8	4.42 7	4.04 5	2.81 10	2.22 5	PHOSGE 632
3.63 6	4.02 8	3.19 10	2.93 7	2.54 4	ALBITE 295
3.63 7	3.20 10	2.06 8	2.00 8	1.67 7	FLUOCE 314
3.63 8	2.68 9	2.48 9	1.81 6	1.79 10	ESKOLA 286
3.62 9	8.47 10	5.37 8	4.96 8	3.49 9	METAUT 530
3.62 10	7.25 9	2.52 9	2.43 2	2.16 2	ANTIGO 733
3.62 7	7.20 9	4.44 10	2.51 3	2.33 3	HALLOY 379
3.62 7	3.78 7	3.38 10	2.84 7	2.79 6	DADSON 245
3.62 10	3.47 10	2.31 8	2.16 10	1.93 8	PANDOR 606
3.62 8	3.05 10	2.72 5	2.00 4	1.69 6	QUENSE 680
3.61 10	5.39 9	4.90 5	4.25 9	3.21 9	MEURUC 533
3.61 9	4.46 6	4.23 6	3.29 9	2.62 10	HYCERU 421
3.61 5	4.01 5	3.76 5	3.18 10	2.93 5	ANORTH 299
3.61 7	2.86 10	2.60 6	2.56 8	1.81 9	TEPHRO 805
3.60 9	10.28 10	4.93 8	3.49 9	2.88 6	AUTINI 60
3.60 8	7.91 10	4.63 5	3.23 5	3.09 6	DUNOAS 271
3.60 6	7.17 9	2.88 6	2.56 10	1.68 5	FRICOF 322
3.60 4	5.87 10	3.05 10	2.29 4	1.95 4	BEAVER 83
3.60 8	4.87 10	2.68 8	2.58 9	2.14 9	ANTLEP 36
3.60 7	4.67 8	4.35 8	2.78 10	2.56 6	PSIDER 634
3.60 5	2.98 5	2.75 10	2.32 4	1.70 5	LEUPHA 481
3.60 4	2.96 5	2.76 10	2.34 4	1.70 5	MELIPH 523
3.59 8	7.69 7	3.93 8	2.98 9	2.50 10	APOPHY 40
3.59 9	7.18 6	4.37 10	4.32 8	2.43 8	NACRIT 566
3.59 10	7.08 10	4.37 8	2.32 10	1.49 9	KAGOLIN 447
3.59 10	6.71 5	5.04 9	3.35 6	2.08 5	ZEUNER 894
3.59 10	6.15 3	4.35 5	3.14 7	2.47 3	CNOCLA 201
3.59 10	3.89 8	2.78 7	2.51 5	2.10 5	COTUNN 225
3.59 10	3.50 6	2.49 5	2.08 5	1.93 4	GERUSS 170
3.59 6	2.79 10	2.13 5	1.96 6	1.74 9	SIDERI 737
3.59 8	2.78 10	2.12 7	1.95 7	1.72 9	SPHECO 756
3.58 10	7.63 9	3.88 9	3.19 9	2.59 9	CHAPPA 183
3.58 10	7.14 10	4.43 5	2.33 9	1.65 5	DICKIT 261
3.58 4	7.10 10	2.66 5	2.57 8	2.35 6	SPANGO 752
3.58 10	6.00 8	5.47 7	3.87 7	3.72 6	MELAPH 521
3.58 7	5.10 7	3.07 8	2.77 10	1.72 8	ROSELB 96
3.58 3	5.02 3	4.32 8	2.95 10	1.81 3	CHABAZ 171
3.58 5	4.93 5	3.44 10	3.21 8	2.73 6	CERAVE 184
3.58 8	4.15 10	3.46 8	2.96 8	2.76 8	BAUMHA 799
3.58 10	3.68 6	2.97 7	2.86 8	2.76 4	LORANO 488
3.58 6	3.47 6	3.33 6	2.85 10	2.01 8	PAVONI 617
3.58 4	3.40 5	3.19 10	2.41 4		

3.52

3.52 8	3.05 10	3.40 8	3.27 9	3.03 7	MERCAL	524
3.52 8	3.03 7	3.33 8	2.99 10	2.18 6	MOLLAS	803
3.52 7	3.80 8	2.78 10	2.64 7	2.58 7	BURKEI	142
3.52 9	3.79 8	3.01 8	2.75 10	1.76 9	SCHAIR	719
3.52 3	3.73 10	3.67 9	2.98 2	2.06 3	PETALI	626
3.52 8	3.40 10	2.87 6	2.71 6	2.03 6	TINTIN	821
3.52 6	3.04 9	2.72 7	2.14 4	2.06 10	BORACI	117
3.52 3	2.73 10	2.10 4	1.93 3	1.69 5	GASPEI	337
3.52 10	2.38 2	1.89 4	1.70 2	1.67 3	ANATAS	27
3.51 5	7.14 5	2.69 10	2.25 7	1.94 5	SWASH	673
3.51 9	6.76 7	4.16 10	3.04 5	1.43 5	LAUMON	466
3.51 7	5.72 7	2.97 10	2.13 8	1.90 7	VSANBE	786
3.51 9	5.47 8	4.93 9	3.69 10	3.25 7	TORBER	824
3.51 2	5.43 6	5.13 10	3.91 7	2.91 6	MINASR	545
3.51 10	4.67 7	3.33 10	2.49 6	1.88 8	AUGELI	56
3.51 8	4.50 5	3.18 10	2.92 8	2.47 7	NEPTUN	578
3.51 9	4.29 9	3.04 9	2.54 10	1.75 5	TRIPHY	829
3.51 10	4.17 6	2.78 8	2.64 6	2.34 8	TWINNI	838
3.51 10	3.47 8	2.90 9	1.89 3	1.67 3	BROOKI	135
3.51 6	3.14 10	2.49 9	2.24 10	1.33 10	BAOTIT	70
3.51 10	3.09 8	2.79 6	1.93 8	1.72 6	BONCHE	116
3.51 10	3.03 4	2.14 7	1.83 5	1.39 3	TIEMAN	817
3.51 10	2.77 6	2.65 7	2.57 6	1.76 4	ASTROP	53
3.50 8	7.44 10	3.18 10	2.56 4	2.04 5	BILLIE	102
3.50 7	7.31 10	4.10 5	3.66 5	3.15 8	ZIPPEI	898
3.50 10	6.01 9	3.00 10	2.81 10	1.85 8	BASSAN	76
3.50 7	4.95 7	4.44 10	3.31 8	1.80 6	SHATTU	735
3.50 10	4.90 4	3.35 3	3.14 5	2.59 4	SZHIKI	792
3.50 2	4.80 10	4.04 5	3.03 2	2.44 5	HAGGIT	377
3.50 10	4.65 5	3.98 5	2.99 5	2.70 10	PUCMER	663
3.50 7	4.58 7	3.21 10	2.58 9	1.80 8	CARMIN	156
3.50 7	3.65 10	3.03 9	2.78 9	2.20 9	HURLBU	418
3.50 6	3.59 10	2.49 5	2.08 5	1.93 4	CERUSS	170
3.50 10	3.03 10	2.61 10	2.00 6	1.82 8	YODERI	892
3.50 9	3.02 2	2.86 10	2.72 8	2.42 2	GRAFFO	362
3.50 4	2.94 10	2.16 5	1.90 5	1.75 5	CRANDA	227
3.50 10	2.80 10	2.48 7	1.86 10	1.28 7	PLATTN	644
3.49 9	10.28 10	4.93 8	3.68 9	2.88 6	AUTUNI	60
3.49 10	9.00 8	4.60 8	2.34 6	1.53 8	SPENCE	753
3.49 9	8.47 10	5.37 8	4.96 8	3.62 9	METAUT	530
3.49 5	6.96 10	4.08 5	2.23 5	1.60 4	CUPHAN	176
3.49 9	6.56 9	4.53 8	3.99 9	3.22 10	MORDEN	559
3.49 7	5.72 8	2.96 10	2.20 8	1.99 7	GOYAZI	361
3.49 5	5.70 9	2.96 10	2.22 7	1.89 5	HINDSA	407
3.49 5	4.96 10	2.92 2	2.45 3	2.20 6	SALREI	707
3.49 5	4.56 5	3.14 10	1.93 4	1.81 5	VALENT	851
3.49 6	4.38 4	3.28 10	3.03 7	2.25 4	GROCCI	231
3.49 5	3.80 4	3.34 10	2.92 4	2.09 4	FIZELY	311
3.49 4	3.38 10	2.97 4	2.80 7	2.09 6	PLAYFA	645
3.49 7	3.25 10	2.91 5	2.84 6	2.05 6	OHYHEE	602
3.49 5	3.22 10	2.77 5	1.87 9	1.75 7	CUBANI	236
3.49 7	3.18 8	2.85 7	2.24 10	1.83 8	JORDAN	442
3.49 10	3.03 2	2.14 7	1.82 5	1.39 3	MARSHI	514
3.49 7	2.94 10	2.16 8	1.89 9	1.74 8	WOODHO	884
3.49 5	2.91 10	2.81 4	2.62 5	2.18 4	HANGOC	382
3.49 10	2.87 5	2.04 4	2.22 4	1.87 4	ANHAYR	33
3.49 5	2.86 10	2.75 6	1.97 4	1.87 4	FERMOR	384
3.49 8	2.55 9	2.09 10	1.60 9	1.37 7	CORIND	222
3.49 9	6.28 5	3.16 8	2.81 10	2.17 7	AKINIT	62
3.48 5	6.15 3	3.08 10	2.95 7	2.79 5	DELMAY	253
3.48 6	6.00 6	3.29 7	3.17 10	3.04 10	SARKIN	714
3.48 10	5.79 8	3.92 9	3.07 8	2.16 9	GREDI	229
3.48 10	5.40 10	2.64 3	2.57 6	1.85 3	TUNGST	836
3.48 10	4.90 5	4.29 9	2.93 8	2.44 10	HETSIT	403
3.48 10	4.90 5	2.75 8	1.86 3	1.54 4	PSBROO	660
3.48 10	4.80 10	4.60 3	4.29 7	4.11 5	HALOTR	380
3.48 8	4.35 4	2.88 10	2.06 3	1.83 2	FRANCK	318
3.48 9	4.04 6	2.84 10	2.63 10	2.32 8	WILLEM	879
3.48 7	3.77 7	3.00 10	2.27 7	1.73 7	LIVING	492
3.48 6	3.31 6	2.95 10	1.95 7	1.74 7	CERITE	169
3.48 9	3.29 7	3.08 10	2.56 10	1.77 8	PREHNI	656
3.48 5	3.10 10	2.40 5	1.83 4	1.54 5	CORONA	221
3.48 4	3.09 4	2.83 10	1.97 4	1.87 5	TRITOM	832
3.48 8	2.98 7	2.83 10	2.08 5	2.01 4	FREIES	320
3.48 10	2.94 8	2.75 10	2.63 6	2.33 7	SARTOR	715
3.47 4	9.10 5	3.48 4	2.86 10	2.63 10	HOPEIT	410
3.47 8	8.45 10	5.83 8	2.94 8	2.70 5	SLAVIK	746
3.47 9	6.97 10	2.66 7	2.46 7	2.08 7	GERMAR	344
3.47 9	6.97 10	5.16 6	4.65 5	3.29 4	HANNAY	384
3.47 6	6.92 10	2.68 3	2.60 2	2.42 4	POSNJIA	653
3.47 5	5.64 3	5.01 5	3.28 4	3.11 10	WALPUR	869
3.47 10	4.90 8	3.83 10	3.21 9	2.88 8	EPISTI	280
3.47 8	4.70 8	2.94 10	2.63 7	1.78 8	MORINI	561
3.47 10	4.66 10	2.78 4	2.64 9	1.80 8	COFFIN	207
3.47 5	4.20 7	3.24 10	2.16 6	1.80 7	MICROC	300
3.47 10	3.83 6	3.07 9	2.69 6	1.95 5	SCAPOL	717
3.47 10	3.62 10	2.31 8	2.16 10	1.93 8	PANDER	606
3.47 6	3.58 6	3.33 6	2.85 10	2.01 8	PAVONI	617
3.47 8	3.51 10	2.90 9	1.89 3	1.67 3	BROOKI	135
3.46 6	9.44 10	7.44 10	3.96 4	3.03 3	PENBLE	620
3.46 10	8.51 6	4.88 10	2.96 5	2.22 6	BARSET	77
3.46 10	7.86 7	4.28 10	3.35 10	2.49 9	BIKIRA	191
3.46 6	4.49 10	2.43 7	2.39 7	2.32 6	PSMALA	661
3.46 8	4.15 10	3.58 8	2.96 8	2.76 8	BAUMHA	79
3.46 4	3.33 5	2.62 10	2.03 5	1.99 4	STROME	776
3.46 5	2.81 10	2.71 6	2.64 3	1.95 4	APAITI	37
3.46 6	8.76 10	7.31 9	3.31 5	2.84 5	LISKEA	490
3.46 6	6.87 3	3.81 8	3.26 10	2.65 4	MOLITE	551
3.46 7	6.51 10	3.29 8	3.19 8	2.17 7	KAINOS	445
3.46 5	5.95 9	5.34 7	4.71 10	3.05 9	NEWBER	580
3.46 8	5.85 10	5.07 8	3.22 8	2.09 9	DUMORT	270
3.46 5	5.54 9	4.48 10	4.00 8	2.99 7	ILESIT	425
3.46 3	5.37 5	4.23 10	2.88 3	2.68 4	EPSOAI	282
3.46 10	4.17 9	3.39 6	2.92 9	2.01 7	LAUNAY	467
3.46 7	3.99 7	2.90 10	2.80 9	1.87 8	SVABIT	785
3.46 6	3.74 5	3.30 10	2.90 10	2.76 5	ANDROI	31
3.46 7	3.54 10	2.46 5	2.05 7	1.90 4	STRONT	777
3.46 6	2.71 10	2.41 4	2.33 4	1.76 7	MARCAS	518
3.44 4	10.30 10	7.20 4	4.80 4	4.07 6	BERAUN	87
3.44 6	8.67 5	4.38 10	2.92 10	2.19 5	TINCAU	820
3.44 8	8.58 8	5.62 5	3.23 10	2.59 6	WAVELL	872
3.44 8	6.50 5	4.80 4	2.79 10	2.52 9	NACHAL	572
3.44 4	5.75 3	3.85 10	3.33 3	3.21 6	S	782

3.44

3.44 9	5.37 8	3.27 10	2.92 7	2.84 7	LEUCIT	480
3.44 10	4.93 5	3.58 5	3.21 8	2.73 6	CHERVE	184
3.44 5	4.92 4	3.25 10	2.77 4	2.25 4	CLAUDF	198
3.44 10	4.80 7	3.29 3	3.10 6	2.52 6	SOMOLF	793
3.44 9	4.66 5	2.64 9	2.47 10	1.50 6	NOLANI	587
3.44 8	4.29 9	2.88 10	2.79 8	2.20 9	PAPAGO	607
3.44 5	4.21 6	3.99 9	2.94 7	2.58 10	TOURNA	826
3.44 10	3.85 5	3.17 5	2.84 9	2.75 8	JAMESO	436
3.44 6	3.56 10	2.96 8	2.74 9	2.65 7	DANBUP	247
3.44 10	3.37 5	2.95 10	2.81 5	2.03 7	GOSALI	224
3.44 10	3.03 4	2.46 4	2.04 4	1.96 5	GALENO	328
3.44 6	2.98 6	2.48 6	1.95 4	1.15 7	SPERRY	755
3.44 9	2.88 10	2.75 7	2.01 4	1.81 3	HIARGY	537
3.44 3	7.50 10	3.30 3	3.02 6	2.49 8	CALUME	153
3.44 4	6.32 10	2.74 8	2.48 8	1.79 4	SUSSEX	784
3.44 5	6.15 6	3.68 10	3.28 4	2.91 8	TURQUO	837
3.44 10	5.61 9	2.93 7	2.70 5	1.75 6	ANALCI	26
3.44 10	4.58 5	2.56 10	2.15 4	1.76 8	XENOTI	890
3.44 10	4.10 9	3.04 4	2.96 5	2.08 5	SORBYI	751
3.44 9	3.90 6	3.32 7	3.10 9	2.12 10	BARITF	72
3.44 10	3.78 7	2.85 6	2.72 6	2.21 4	GRATON	365
3.44 3	3.65 5	3.25 8	3.05 9	2.87 10	TRIPLI	830
3.44 4	3.09 10	1.71 2	1.54 1	1.34 2	COESIT	206
3.44 8	2.97 10	2.10 7	1.79 5	1.33 3	GALENA	327
3.42 10	5.87 5	3.28 6	3.04 8	2.37 8	LEONIT	478
3.42 9	5.05 9	3.23 8	3.17 10	2.11 7	OUFREN	268
3.42 10	4.70 7	2.46 7	2.28 7	1.90 8	HARANNE	125
3.42 8	3.81 10	3.26 8	3.03 9	2.76 7	VEENIT	854
3.42 10	3.65 8	2.91 9	2.42 8	1.73 8	POLLUC	648
3.42 4	3.30 5	2.85 10	2.33 5	2.04 5	FALLI	798
3.42 2	3.21 4	2.80 10	2.05 2	1.95 2	ARAWAY	42
3.41 6	7.97 10	6.86 5	6.05 4	2.77 5	CAVANS	164
3.41 2	5.95 5	3.18 10	2.91 8	2.86 6	POLYHA	651
3.41 3	5.73 10	5.08 5	3.05 6	2.62 10	CARPHI	159
3.41 10	5.37 7	2.71 6	2.21 8	1.53 8	MULLIT	564
3.41 10	4.83 10	3.33 10	2.57 9	2.53 9	KIESER	452
3.41 10	4.80 7	3.36 3	3.07 6	2.53 6	GUNNIN	375
3.41 5	4.67 4	2.81 5	2.63 10	1.88 4	HELLAN	394
3.41 9	3.95 6	3.74 7	3.04 8	2.78 10	ROBINS	695
3.41 10	3.28 7	2.70 8	2.37 7	1.98 9	ARAGON	41
3.41 6	3.16 6	2.84 10	2.57 8	1.70 6	WHITLO	877
3.41 10	2.77 6	2.12 3	1.98 4	1.82 4	ZINCKE	897
3.41 10	2.64 4	2.41 8	1.78 4	1.68 9	MANGAN	508
3.40 4	9.10 5	3.47 4	2.86 10	2.63 4	HOPEIT	410
3.40 7	8.85 3	3.57 9	3.55 10	3.04 5	VOLTAI	866
3.40 7	6.81 10	3.54 7	2.95 8	1.90 9	BOLTHO	114
3.40 8	6.28 6	3.16 10	3.07 7			

3.35

Table with 4 columns: ID, Name, Value, and another Value. Rows include names like HINEMI, FINNEM, CARROL, LINNAE, DANALI, CLARKE, SARCOL, MUSCOV, SANBOR, FIZELY, PYRARG, RHODON, LANARK, POLYDY, SIEGEN, BERZEL, LIEBRG, S, KIFSER, AUGELI, GAUNI, ANGLS, WOLLAS, JOESHI, PAVONI, STROME, GENTHE, CELADO, ORTHOC, BARTIE, LISKEA, METVOL, HUMMER, HYMNAS, DIABOL, MILARI, SHATTU, FRONAC, BENITO, CERITE, DIAPHO, TAILD, BYSTRO, CALUME, MICRSO, CUANTH, CARNAL, JOAQUIT, ZIRCON, MONAZI, ANDRI, TEALLI, BORNIT, FRESNO, CROOKE, GUERIN, GINORI, HANNAY, KAINOS, LEPIDO, SARKIN, ORIENT, SZOMOL, HUTTON, STEENS, HYGERU, CHKALO, HENEGH, PREHMI, WAGNEP, CELEST, LAURIO, TSCMHI, KROHNK, TURQUO, LEONIT, WALPUR, DAVYNE, CROOCI, NEPHEI, EGGLEST, PECTOL, PENSEY, TELLUR, APAGON, WURTZI, TRIPUH, STRUVE, BI, BERMAN, HOHMAN, FRANCE, SKLODO, BUTTGE, BREWST, TARBUS, LFUCIT, VISHNE, ANGLS, PARSON, PYROMO, NASONI, MERCAL, ALLACY, PROUST, RHODIZ, SCHIRM, ASSIDE, HOLITE, NARSAR, VEENIT, STERRY, ALLEGH.

3.26

Table with 4 columns: ID, Name, Value, and another Value. Rows include names like ELPIOT, WALLER, BERYL, PHARSI, KERNIT, KALUM, PLANER, ATELES, CARNOT, TORBER, BONATT, BRACKE, CLAUDE, BARBOS, PRATIN, TRIPLI, OWYHEE, TILASI, EMBOLI, WULFEN, BISMIT, RUTILE, FFRVAN, CONNEL, SCHOEPE, AURICH, FLUELL, KASOLI, LAZULI, KENTRO, GHELIN, MOTTRA, HIEBER, MICRO, CHRYBE, TIBI, XONOT, NIOTAL, STOLZI, WAVELL, DESTIN, DUNDAS, EMPLEC, FINOLY, FRYTHR, NESQUE, GONNAR, MELANT, DESULO, DUPREN, VLASOV, AERIS, BAUMI, SCHIZO, SPHENE, ENARGI, ALTAIT, PALLYGO, STUDI, HORNES, MORDEN, SFNARC, CANCRH, DUMORT, TYUAM, NORTHU, CONRNA, DAYLOD, GILLES, ORTHOC, FULOPP, SOULAN, CUDANI, PYRARG, BRITHO, TEBISM, WEHRLI, JECQUE, VIVIAN, SIDETI, METURC, VESIGN, CERUE, EPISII, RUTHER, CARMIN, ARAMAY, DIGHENI, THORTA, CLARGY, XANTPH, ANNADF, ASLITE, GAYLUS, EDUAL, PRIDER, SENFEE, FERRI, FERRI, DULYTI, EUPOYS, TOPAZ, FLUOCF, GEOCRO, ARROJA, BUSTAM, GUTTER, GOWERI, UPHAND, CHAPHA, PHILLI, FAIRCH.

3.26

Table with 4 columns: ID, Name, Value, and another Value. Rows include names like HINEMI, FINNEM, CARROL, LINNAE, DANALI, CLARKE, SARCOL, MUSCOV, SANBOR, FIZELY, PYRARG, RHODON, LANARK, POLYDY, SIEGEN, BERZEL, LIEBRG, S, KIFSER, AUGELI, GAUNI, ANGLS, WOLLAS, JOESHI, PAVONI, STROME, GENTHE, CELADO, ORTHOC, BARTIE, LISKEA, METVOL, HUMMER, HYMNAS, DIABOL, MILARI, SHATTU, FRONAC, BENITO, CERITE, DIAPHO, TAILD, BYSTRO, CALUME, MICRSO, CUANTH, CARNAL, JOAQUIT, ZIRCON, MONAZI, ANDRI, TEALLI, BORNIT, FRESNO, CROOKE, GUERIN, GINORI, HANNAY, KAINOS, LEPIDO, SARKIN, ORIENT, SZOMOL, HUTTON, STEENS, HYGERU, CHKALO, HENEGH, PREHMI, WAGNEP, CELEST, LAURIO, TSCMHI, KROHNK, TURQUO, LEONIT, WALPUR, DAVYNE, CROOCI, NEPHEI, EGGLEST, PECTOL, PENSEY, TELLUR, APAGON, WURTZI, TRIPUH, STRUVE, BI, BERMAN, HOHMAN, FRANCE, SKLODO, BUTTGE, BREWST, TARBUS, LFUCIT, VISHNE, ANGLS, PARSON, PYROMO, NASONI, MERCAL, ALLACY, PROUST, RHODIZ, SCHIRM, ASSIDE, HOLITE, NARSAR, VEENIT, STERRY, ALLEGH.

3.19

Table with 4 columns: ID, Name, Value, and another Value. Rows include names like ELPIOT, WALLER, BERYL, PHARSI, KERNIT, KALUM, PLANER, ATELES, CARNOT, TORBER, BONATT, BRACKE, CLAUDE, BARBOS, PRATIN, TRIPLI, OWYHEE, TILASI, EMBOLI, WULFEN, BISMIT, RUTILE, FFRVAN, CONNEL, SCHOEPE, AURICH, FLUELL, KASOLI, LAZULI, KENTRO, GHELIN, MOTTRA, HIEBER, MICRO, CHRYBE, TIBI, XONOT, NIOTAL, STOLZI, WAVELL, DESTIN, DUNDAS, EMPLEC, FINOLY, FRYTHR, NESQUE, GONNAR, MELANT, DESULO, DUPREN, VLASOV, AERIS, BAUMI, SCHIZO, SPHENE, ENARGI, ALTAIT, PALLYGO, STUDI, HORNES, MORDEN, SFNARC, CANCRH, DUMORT, TYUAM, NORTHU, CONRNA, DAYLOD, GILLES, ORTHOC, FULOPP, SOULAN, CUDANI, PYRARG, BRITHO, TEBISM, WEHRLI, JECQUE, VIVIAN, SIDETI, METURC, VESIGN, CERUE, EPISII, RUTHER, CARMIN, ARAMAY, DIGHENI, THORTA, CLARGY, XANTPH, ANNADF, ASLITE, GAYLUS, EDUAL, PRIDER, SENFEE, FERRI, FERRI, DULYTI, EUPOYS, TOPAZ, FLUOCF, GEOCRO, ARROJA, BUSTAM, GUTTER, GOWERI, UPHAND, CHAPHA, PHILLI, FAIRCH.

3.19

Table with 4 columns: first column (3.19), second column (6.51-7.00), third column (3.45-4.90), fourth column (3.29-4.10), fifth column (2.17-2.83), sixth column (KAINOS-CPYPME), seventh column (445-235).

3.12

Table with 4 columns: first column (3.12), second column (6.81-7.00), third column (5.40-6.50), fourth column (4.55-5.25), fifth column (3.33-3.90), sixth column (LIEDIG-ORIENT), seventh column (486-599).

3.12

Table with 4 columns: first column (3.12), second column (4.62-7.00), third column (3.80-4.90), fourth column (3.10-4.10), fifth column (KANTO-CPYPME), sixth column (868-235).

3.07

Table with 4 columns: first column (3.07), second column (8.35-9.00), third column (7.56-8.50), fourth column (6.27-7.50), fifth column (METVOL-ORIENT), sixth column (535-599).

3.06

Table with 10 columns: ID, Name, Value, ID, Name, Value, ID, Name, Value, ID, Name, Value. Contains data for section 3.06.

3.01

Table with 10 columns: ID, Name, Value, ID, Name, Value, ID, Name, Value, ID, Name, Value. Contains data for section 3.01.

3.01

Table with 10 columns: ID, Name, Value, ID, Name, Value, ID, Name, Value, ID, Name, Value. Contains data for section 3.01.

2.96

Table with 10 columns: ID, Name, Value, ID, Name, Value, ID, Name, Value, ID, Name, Value. Contains data for section 2.96.

2.96

2.96 10	5.04 8	3.23 10	2.47 5	1.94 5	VLASOV	864
2.96 2	4.64 3	4.57 4	4.25 10	2.72 2	RETER	689
2.96 5	4.44 5	3.34 10	3.19 3	2.55 9	MUSCOV	539
2.96 10	4.35 10	3.71 10	2.35 8	2.09 7	ANCYLI	28
2.96 6	4.18 4	3.03 10	2.92 5	1.97 5	HEDYPH	393
2.96 8	4.15 10	3.58 8	3.46 8	2.76 8	BAUMHA	79
2.96 10	4.13 5	3.27 4	2.88 6	2.06 5	PYROMO	671
2.96 5	4.10 9	3.43 10	3.04 4	2.08 5	SORBYI	751
2.96 10	3.97 9	2.67 7	2.24 4	2.21 4	CYMRIT	244
2.96 10	3.96 5	3.06 9	2.48 4	1.90 4	ROSENBN	699
2.96 4	3.77 10	3.56 4	3.39 7	3.01 7	CUSIDE	179
2.96 10	3.72 8	2.14 7	1.95 7	1.62 8	BITITF	107
2.96 10	3.66 5	2.51 3	1.72 5	1.46 5	COLUMB	211
2.96 5	3.60 4	2.76 10	2.34 4	1.70 5	MELTPO	523
2.96 8	3.56 10	3.44 6	2.74 9	2.65 7	DANBUR	247
2.96 7	3.35 4	3.04 10	2.11 4	1.99 3	MTMETI	544
2.96 9	3.35 10	3.13 2	2.71 4	1.84 3	MONETI	553
2.96 5	3.26 10	3.13 7	2.55 5	1.94 5	ELPITJ	273
2.96 10	3.14 9	3.08 7	2.34 9	1.97 7	MTJAR	532
2.96 9	2.86 10	2.57 7	1.55 9	1.41 7	HOOGKI	408
2.96 10	2.84 7	2.69 6	2.16 7	1.95 8	PERRIE	625
2.96 5	2.77 10	2.62 10	1.67 5	1.62 7	MAGPLU	505
2.96 6	2.54 10	2.10 7	1.61 8	1.49 9	MAGNET	504
2.96 10	2.25 5	1.98 8	1.53 10	1.23 6	STISHO	773
2.95 8	6.81 10	3.54 7	3.48 7	1.90 6	BOLTHO	114
2.95 9	6.76 5	5.50 8	4.48 10	3.96 8	LEONHA	477
2.95 7	6.15 3	3.48 5	3.08 10	2.79 5	DELHAY	253
2.95 10	5.91 9	3.08 7	3.08 8	1.54 7	PARTZI	615
2.95 9	5.88 5	5.07 6	2.89 9	1.78 10	WEBERI	873
2.95 10	5.83 7	3.38 4	2.22 4	1.70 4	RAUVIT	685
2.95 7	5.44 9	4.46 10	3.93 8	3.40 5	APLOWI	39
2.95 10	5.02 3	4.32 8	3.58 3	1.81 3	CHABAZ	171
2.95 9	4.80 6	3.75 6	2.98 10	2.48 6	HUBNER	413
2.95 10	4.77 6	3.74 6	2.48 7	1.72 6	WOLFA	882
2.95 7	4.65 10	3.52 7	2.86 10	2.68 8	THOMSO	811
2.95 5	4.48 10	4.37 10	3.95 4	1.03 5	ALUNOC	19
2.95 3	4.44 10	2.36 4	2.29 4	1.58 3	CLIOJO	191
2.95 6	4.27 10	4.06 8	3.80 9	2.48 5	TRIDYM	827
2.95 10	3.78 9	2.46 4	2.07 4	1.83 5	OTAVIT	601
2.95 7	3.56 9	2.70 6	2.57 7	2.46 10	NIXITE	548
2.95 10	3.48 6	3.31 6	1.95 7	1.74 7	CERITE	169
2.95 10	3.44 10	3.37 5	2.81 5	2.03 7	COSALI	224
2.95 10	3.34 10	2.84 8	2.05 7	1.84 8	LANARK	462
2.95 4	3.31 10	2.81 9	2.03 4	1.71 2	DIAPHO	259
2.95 6	3.12 7	2.88 8	2.75 10	2.47 5	BABING	65
2.95 10	3.12 5	2.67 7	2.21 5	2.19 6	PYROXM	677
2.95 3	3.08 10	2.74 3	2.38 3	1.72 3	MASSIC	516
2.95 10	3.06 3	2.60 9	2.21 3	2.03 3	NAHCOL	569
2.95 7	3.01 10	1.85 4	1.58 4	1.51 5	LYNDCC	498
2.95 10	2.77 9	2.45 6	2.30 6	1.81 6	PURICE	618
2.95 8	2.75 7	2.59 8	2.46 6	1.52 7	VESLVI	869
2.95 8	2.95 10	5.83 8	3.47 8	2.70 5	SLAVIK	746
2.94 7	8.59 7	6.46 10	3.24 7	2.63 5	FERVAN	308
2.94 7	6.18 9	4.11 9	3.09 10	2.81 9	AJOITE	7
2.94 8	5.40 10	3.18 9	2.72 8	1.86 6	REALGA	686
2.94 5	5.09 2	3.14 10	2.17 2	1.69 3	THORTV	816
2.94 6	4.83 5	3.34 8	2.85 7	2.75 10	SARCOL	712
2.94 10	4.70 8	3.75 7	2.48 6	1.72 8	FERBER	302
2.94 10	4.70 8	3.47 8	2.63 7	1.78 8	MORINI	561
2.94 7	4.55 6	3.22 7	3.15 10	2.71 7	BAYLDO	81
2.94 7	4.21 6	3.99 9	3.44 5	2.58 10	TOURNA	826
2.94 4	3.87 9	3.22 10	2.12 4	1.98 4	FULOPP	323
2.94 10	3.69 7	3.20 9	2.36 5	2.10 6	TOPAZ	823
2.94 5	3.64 9	2.67 10	2.59 8	1.82 9	MONIC	554
2.94 10	3.56 6	2.72 5	2.63 5	1.65 5	ALLANI	12
2.94 6	3.55 10	2.62 5	2.11 3	1.55 4	LEADNI	475
2.94 10	3.50 4	2.16 5	1.90 5	1.75 5	CRANDA	227
2.94 10	3.49 7	2.16 8	1.89 9	1.74 8	WOODHO	884
2.94 8	3.48 10	2.75 10	2.63 6	2.33 7	SARTOK	715
2.94 9	3.12 10	2.73 6	1.89 9	1.63 7	FERGUS	303
2.94 4	3.07 10	2.70 4	1.86 6	1.58 5	RINKIT	694
2.94 10	2.84 8	2.50 9	2.43 6	1.38 6	JADEIT	676
2.94 10	2.55 3	1.80 8	1.54 5	1.17 3	TENNAN	803
2.94 7	2.52 10	2.07 7	1.60 9	1.46 9	CHROMI	193
2.93 4	7.57 10	4.24 10	3.05 8	2.62 5	BRUSHI	138
2.93 10	5.93 8	4.75 5	4.44 7	3.23 5	GONNAP	358
2.93 7	5.61 9	3.43 10	2.70 5	1.75 6	ANALCI	26
2.93 7	5.51 9	3.31 10	2.29 9	1.76 7	DIABOL	257
2.93 9	5.47 5	5.15 4	4.42 10	4.04 8	HEXAHY	405
2.93 8	4.90 5	4.29 9	3.48 10	2.44 10	HEFSIT	403
2.93 7	4.70 7	3.56 6	3.30 10	1.99 5	CARNAL	157
2.93 10	4.44 10	3.30 5	2.99 9	2.79 5	JOAQUI	439
2.93 10	4.21 6	2.80 8	2.45 5	1.57 7	SPODUM	760
2.93 7	4.02 8	3.63 6	3.19 10	2.54 4	ALBITE	295
2.93 5	4.01 5	3.76 5	3.61 5	3.18 10	ANORTH	299
2.93 5	3.99 10	2.00 8	1.97 9	1.76 3	THOMSE	810
2.93 4	3.38 10	2.07 7	1.76 7	1.34 2	MFTCIN	531
2.93 4	3.01 10	2.10 8	1.32 4	1.20 4	CALAVE	147
2.93 10	2.54 5	1.80 6	1.54 6	1.17 3	TAEUXE	795
2.92 10	10.20 10	3.78 4	3.05 9	2.81 5	TOBERH	822
2.92 8	8.92 10	4.02 5	2.74 5	2.19 7	INESIT	429
2.92 10	8.67 5	4.38 10	3.44 6	2.19 5	TINCAL	820
2.92 10	8.35 9	4.35 10	3.91 10	3.23 4	DESTIN	255
2.92 6	7.10 10	5.94 5	5.48 6	4.26 8	UPILIT	844
2.92 8	6.33 10	3.71 7	3.28 9	2.76 9	KROHMK	459
2.92 9	6.30 4	4.65 10	3.93 3	3.27 4	BREHST	129
2.92 10	6.15 5	4.21 10	3.24 9	3.06 9	KASOLI	468
2.92 8	5.90 6	5.60 6	4.26 10	2.69 8	STRUVI	779
2.92 9	5.82 6	4.51 6	3.38 10	3.05 7	BARYLI	73
2.92 7	5.37 8	3.44 9	3.27 10	2.84 7	LEUCIT	480
2.92 10	5.27 7	4.08 9	3.14 9	2.70 7	KERMES	450
2.92 2	4.96 10	3.49 9	2.45 3	2.20 6	SALEEI	707
2.92 8	4.50 5	3.51 8	3.18 10	2.47 7	NEPTUN	578
2.92 8	4.44 3	2.49 6	1.64 6	1.49 10	CHRYCO	195
2.92 9	4.23 6	3.16 6	2.59 10	1.45 6	ARDENN	44
2.92 5	4.18 4	3.03 10	2.96 6	1.97 5	HEDYPH	393
2.92 9	4.17 9	3.45 10	3.39 6	2.01 7	LUNAY	467
2.92 8	4.02 7	3.18 10	2.53 4	1.82 5	OLIGOC	297
2.92 5	4.01 7	3.72 7	3.19 10	2.51 5	HIGHAL	296
2.92 5	4.01 7	3.73 6	3.19 10	2.51 6	LABRAD	298
2.92 9	3.85 6	3.25 10	2.62 6	2.14 6	PLAGIN	640
2.92 4	3.80 4	3.49 5	3.34 10	2.09 4	FIZELY	311
2.92 9	3.71 9	3.29 10	2.75 6	2.08 5	MENEH	527

2.92

2.92 6	3.66 7	3.40 10	2.72 9	1.74 6	MADOCI	500
2.92 1	3.28 3	3.10 10	1.90 4	1.62 2	WURTZI	886
2.92 10	2.81 10	2.86 5	2.02 9	1.48 5	SN	819
2.92 6	2.50 10	2.06 2	1.58 5	1.47 6	GALAXI	326
2.92 2	2.49 10	2.05 5	1.59 6	1.47 7	MGCHRO	501
2.91 4	9.61 10	4.42 3	3.66 2	3.27 3	BERMAN	88
2.91 4	7.90 10	4.77 5	3.95 5	3.00 4	UPHANE	847
2.91 9	6.42 4	5.83 10	3.31 3	2.15 5	HYMAGS	422
2.91 8	6.15 6	3.68 10	3.43 5	3.28 4	TURQUO	837
2.91 5	5.95 5	3.41 2	3.18 10	2.86 6	POLYHA	651
2.91 5	5.80 4	4.81 10	3.71 3	2.63 10	LBETH	485
2.91 6	5.43 6	5.13 10	3.91 7	3.51 2	MINASR	545
2.91 10	5.18 8	2.32 9	2.00 7	1.55 7	CHIOLI	186
2.91 8	4.37 10	4.01 6	2.27 4	2.00 4	MOORNO	558
2.91 4	4.21 4	3.07 9	3.28 5	3.03 10	NEPHEL	577
2.91 6	4.04 6	2.81 10	2.02 9	1.64 5	APHTHI	38
2.91 10	3.88 7	3.28 7	3.10 8	2.60 6	PFGTOL	619
2.91 6	3.71 9	3.27 7	3.05 10	2.51 7	ALLACT	11
2.91 9	3.65 8	3.42 10	2.42 8	1.73 8	POLLUC	648
2.91 10	3.58 4	2.76 6	2.13 5	1.28 5	ALLEN0	14
2.91 7	3.56 10	2.51 6	1.94 6	1.78 8	SHALIT	781
2.91 10	3.49 5	2.81 6	2.62 5	2.18 4	HANCO	392
2.91 5	3.49 7	3.25 10	2.84 6	2.05 6	QHYHEC	602
2.91 10	2.42 2	2.21 3	2.03 2	1.81 3	FEDOLE	265
2.90 3	5.78 4	3.84 9	1.93 5	1.78 10	PENTLA	622
2.90 8	5.10 8	3.23 10	2.69 8	2.62 8	DFSCLO	254
2.90 10	4.17 7	3.00 9	2.22 5	2.08 7	ARCANI	43
2.90 10	4.02 5	2.68 7	2.60 5	2.40 5	EPIDOT	279
2.90 10	3.99 7	3.45 7	2.80 9	1.87 8	SVABIT	785
2.90 10	3.79 5	2.74 3	2.64 3	2.45 3	PUMPEL	664
2.90 10	3.74 5	3.45 6	3.30 10	2.76 5	ANDORI	31
2.90 5	3.58 10	2.71 4	2.27 5	1.79 5	MATLOC	518
2.90 9	3.51 10	3.47 8	1.89 3	1.67 3	BROOKI	135
2.90 5	3.38 10	2.79 5	2.63 3	1.75 4	MINIUM	546
2.90 4	3.36 10	2.06 8	1.75 7	1.34 3	HAWLEY	391
2.90 5	3.00 10	2.53 9	1.63 5	1.42 3	AGUITE	674
2.90 5	2.99 10	1.88 4	1.61 4	1.55 6	ALMAND	330
2.90 7	2.89 7	4.23 10	4.47 10	4.47 10	SPICOL	725
2.89 9	6.81 6	4.72 6	3.72 10	6.25 6	PLANEP	642
2.89 9	5.88 5	5.07 6	2.95 9	1.78 10	WEBERI	873
2.89 10	5.79 4	3.90 10	2.85 5	1.81 5	CYLIND	243
2.89 10	5.55 7	3.24 8	2.86 10	2.74 10	KENTRO	449
2.89 9	4.08 5	2.04 5	1.83 10	1.67 8	HFZLZ	392
2.89 5	3.77 6	3.19 8	3.09 10	1.99 4	PHARMA	628
2.89 8	3.34 3	3.10 7	2.97 9	2.76 10	RHODON	693
2.89 10	3.20 7	3.00 6	1.77 4	1.66 5	JUSTAM	143
2.89 4	3.20 10	2.24 10	2.12 3</			

2.86

Table with 4 columns: number, name, number, name. Includes names like ENGLIS, HOPEIT, MESOLI, POLYHA, OFFRET, EUDIAL, KENTRO, GHELIN, BASTNA, THOMSO, DATOLI, IEPHRO, GRAFFO, FERFOR, CARROL, CINNAD, HERDER, HESSIT, HODGKI, LEUPHO, DELAFD, GANNIT, SPINEL, JAVIDI, NATROL, MALACH, SYNGEN, MORENO, GANOMA, SARCOL, WHITIC, GRATON, BAKERI, RHODOC, KNEBEL, PAVONI, KOBELL, JORDAN, TEALLI, ARROJA, POLYDY, SIEGEN, GEHEN, CLAPAT, CREONE, NIGERI, HILGAR, BREITH, OLDHAM, LISKEA, ZUNYIT, ILVAIT, ERIONI, PARAVA, LENGEN, LEUCIT, THORIT, GRAYIT, CRISTO, WILLEH, BEONIT, JAMESO, DADSON, STERRY, THOREA, OMWHEE, WHITLO, LANARK, MATILO, WAGNER, AFMILL, CONICH, ACANTH, PERRIE, JADEIT, PARRA, SIMPSO, OKENIT, PARADA, SARCOPT, BONAT, THGUMM, BROCKI, CYANOC, BADDEL, FAYALI, PARISI, FREIES, TRITOH, LINNAE, GADDI, MONDI, GERSDO, LEVYNE, CHURCH, ATACAM, TCRNEB, EMBOLI, ARITHO, WILKEI, ZINCIT, RANMEL, MELONI, HALITF, ARTHUR, TOBERH, PHARSI, AXINIT, CLAUBE, AJOITE, BASSAN, XANTCO.

2.81

Table with 4 columns: number, name, number, name. Includes names like CHILOP, HARDIT, HELLAN, PHOSGE, WFOGA, GROUTI, APHTHI, BOULAN, NADORI, HANCOG, APATTI, COSALI, DIAPHO, LITHAR, COVELL, NAGYAG, SN, SCHOLZ, LEUSPH, FORNAC, SYNCHI, SPODUM, GUETTA, SPENCI, SVABIT, PLATIN, PLAYFA, ARMEY, SCHIRH, LANGBA, INVOLT, NACHAL, SENARM, DELWAY, DAMSON, GANOMA, ORPINE, JOAQUI, BOLEIT, HAUCHE, PAPAGO, PARSON, PACHMO, HANKSI, DADSON, STIERI, BONCHE, MINIUH, DIGENI, THORIA, AUSTIN, ASSIDE, FIBROF, TARBUS, ANDALU, MILLER, PSIDER, COFFIN, STILBI, THENAR, THINNI, NASONI, RODINS, COLTUN, BURKET, HURLBU, SPHECO, AS, PYRARG, CLARGY, BERZII, COBALT, CAVANS, ASLITE, ROSELB, BRANDT, CLAUDE, WIDLAM, NISSON, CHKALO, ASTROP, GUBANI, ZINCKE, RATHW, SCAWTI, MAGPLU, PEARCE, CLAPAT, PETZIT, CUHMEN, COGUEH, KROHNK, STEIGE, ATACAM, METVAU, STIBNI, BRACKE, CUANTH, VISHNE, BAUMHA, FORSTE, VEENIT, AENDRI, CNOHUM, LORAND, MELIPH, ALLEMO, TRIMER, RHODON, HAUSMA, HENDTP, MONTDI, HUMMER.

2.81

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Table with 4 columns: number, name, number, name. Contains names like FLUELL, PARATA, PSBROD, SARCOL, MINNES, GRYVLT, JAMESO, SCHAIR, MEMEGH, LEUPHA, SMITHS, FERHOR, SARTOR, MIARGY, PROUST, BABING, GRIPHI, HAUERI, VESUVI, LANGBA, ILMENI, MAGNES, CATTIE, GLAUDO, LOPARI, INESIT, CONNEL, BUTTGE, EUKRYP, SUSSEX, SYNGEN, KFNTRO, GRANDO, ARTINI, MILARI, JRAZIL, SALAMH, PUNEL, BEMTO, DANBUR, BORNIT, WAGNER, CHAMBF, MASSIC, ENGLIS, GOWERI, DRESSE, HORNES, ATELF5, HARMOT, GANCRI, NITRAM, GHERVE, BLOEDI, PFERRI, CALOME, AERINI, OOURNO, TELLUR, GASPEI, CFLEST, STOLZI, URANIN, FERGUS, WILKEI, TREMOL, AURICH, HYZINC, ERYTHR, ALLUAV, EPSTO, REALGA, VESIGN, LAMSON, RETGER, ALUMIN, ILSEMA, SANBOR, BIXBYI, GRATON, AUSTIIB, MADOCI, QUENSE, ALLANI, BORACI, GRAFTO, MOLFEN, AFMILL, COVELL, GEHLEN, BRAUNI, AENIGHT, DIOPTA, GISONO, ILVAIT, VIVIAN, FIMOLY, GAYLUS, SODDYI, HOLYBR, LAUITT, MULLIT, SAKURA, GANOMA, FORNAC, BAYLDO, STILPN, PEROVS, HAFLOC, TINTIN, APATIT, MARCAS, ARROJA.

2.71

Table with 4 columns: number, name, number, name. Contains names like MONETI, STANNI, CERIAN, PLAZOL, SCHORL, GREDNA, HAROKI, PYRITE, MAUCHE, SLAVIK, BAYLEY, HILLI, LTROGO, LUHNER, ANALCI, PINAKI, KERMES, ORIENT, NORTHU, ADAMIT, TYROLI, PUCHER, EUEI, SPENCI, SPURRI, DUFOYS, GLAUCH, MIXIE, ARAGON, SPHAL, RINKIT, LEUPHO, ULEXIT, PYROSH, ANNABE, BROCHA, CATAPL, COLLIN, STRUVI, CLARKE, SIDOTI, DUCOLO, BRAZIL, ZOISIT, GOETHI, SCAPOL, FRESNO, BISMIT, TLASI, BUETSC, STAURO, HETAER, PERRIE, HENATI, GYPSUM, POSWA, NEOMES, EPSONI, MOTTRA, ANTLER, PLANCH, MICRMO, THOMSO, EPIDOT, ESKOLA, HOSAND, SCHIZO, AGOITE, UVAROV, GNOZIO, PENROS, VILLIA, ZUMYIT, HARMOT, SZAIBE, GLAUBE, MARGAO, DAVYNE, THORIT, THGUMH, GUETTA, TYCHIT, CYMRIT, HONTIC, SYLLTM, PYROKH, MAWSON, FANATI, ANDRAD, GROSSO, NAUMAN, ASPYRI, SPANGO, GERHAR, FAIRCH, FLUELL, PIRSSO, DEVILL, TRONA, GROUIT, TROILI, NICKEL, MOLLITE, MOREMO, MINNES, WAKEFI, BLOEDI, GILLES, PFERRI, ULLMAN, NITRE, DANBUR, ASTROP.

2.71

Table with 4 columns: number, name, number, name. Contains names like MONETI, STANNI, CERIAN, PLAZOL, SCHORL, GREDNA, HAROKI, PYRITE, MAUCHE, SLAVIK, BAYLEY, HILLI, LTROGO, LUHNER, ANALCI, PINAKI, KERMES, ORIENT, NORTHU, ADAMIT, TYROLI, PUCHER, EUEI, SPENCI, SPURRI, DUFOYS, GLAUCH, MIXIE, ARAGON, SPHAL, RINKIT, LEUPHO, ULEXIT, PYROSH, ANNABE, BROCHA, CATAPL, COLLIN, STRUVI, CLARKE, SIDOTI, DUCOLO, BRAZIL, ZOISIT, GOETHI, SCAPOL, FRESNO, BISMIT, TLASI, BUETSC, STAURO, HETAER, PERRIE, HENATI, GYPSUM, POSWA, NEOMES, EPSONI, MOTTRA, ANTLER, PLANCH, MICRMO, THOMSO, EPIDOT, ESKOLA, HOSAND, SCHIZO, AGOITE, UVAROV, GNOZIO, PENROS, VILLIA, ZUMYIT, HARMOT, SZAIBE, GLAUBE, MARGAO, DAVYNE, THORIT, THGUMH, GUETTA, TYCHIT, CYMRIT, HONTIC, SYLLTM, PYROKH, MAWSON, FANATI, ANDRAD, GROSSO, NAUMAN, ASPYRI, SPANGO, GERHAR, FAIRCH, FLUELL, PIRSSO, DEVILL, TRONA, GROUIT, TROILI, NICKEL, MOLLITE, MOREMO, MINNES, WAKEFI, BLOEDI, GILLES, PFERRI, ULLMAN, NITRE, DANBUR, ASTROP.

2.65

Table with 4 columns: number, name, number, name. Contains names like MONETI, STANNI, CERIAN, PLAZOL, SCHORL, GREDNA, HAROKI, PYRITE, MAUCHE, SLAVIK, BAYLEY, HILLI, LTROGO, LUHNER, ANALCI, PINAKI, KERMES, ORIENT, NORTHU, ADAMIT, TYROLI, PUCHER, EUEI, SPENCI, SPURRI, DUFOYS, GLAUCH, MIXIE, ARAGON, SPHAL, RINKIT, LEUPHO, ULEXIT, PYROSH, ANNABE, BROCHA, CATAPL, COLLIN, STRUVI, CLARKE, SIDOTI, DUCOLO, BRAZIL, ZOISIT, GOETHI, SCAPOL, FRESNO, BISMIT, TLASI, BUETSC, STAURO, HETAER, PERRIE, HENATI, GYPSUM, POSWA, NEOMES, EPSONI, MOTTRA, ANTLER, PLANCH, MICRMO, THOMSO, EPIDOT, ESKOLA, HOSAND, SCHIZO, AGOITE, UVAROV, GNOZIO, PENROS, VILLIA, ZUMYIT, HARMOT, SZAIBE, GLAUBE, MARGAO, DAVYNE, THORIT, THGUMH, GUETTA, TYCHIT, CYMRIT, HONTIC, SYLLTM, PYROKH, MAWSON, FANATI, ANDRAD, GROSSO, NAUMAN, ASPYRI, SPANGO, GERHAR, FAIRCH, FLUELL, PIRSSO, DEVILL, TRONA, GROUIT, TROILI, NICKEL, MOLLITE, MOREMO, MINNES, WAKEFI, BLOEDI, GILLES, PFERRI, ULLMAN, NITRE, DANBUR, ASTROP.

2.65

Table with 4 columns: ID, Name, Value, and Rank. Contains names like RENIER, SJOEGE, GARNIE, BERTHI, GAYLUS, MELANT, ERIOCH, TUNGST, COFFIN, NOLANI, VISHNE, MONTRO, THINNI, BURKEI, SPURRI, PUMPEL, APATTI, MANGAN, BIOTIT, CASSIT, NORBER, GERMAN, PYRRHO, BAFERD, HOPEIT, FERVAN, CUMMIN, BRUGNA, FAIRCH, HAUYNE, NOSEAN, KOLOVR, LIBETH, BURAN, PORTLA, MORINI, HELLAN, MUSKOK, RUTHER, GAUDEF, WILLEM, 90GGIL, GLAUCH, WITHER, ALLANI, SARTOR, MINIUH, ISOKIT, AUSTIN, HENDIP, TEFRAH, PYROU, BRUSHI, ARUCH, NESQUE, LAZURI, CARPHI, DERSLO, LAWSON, SCHEEL, SAPONI, HYCERU, PLAGIN, LEADHI, HANCOG, STROME, KORNER, BINDHE, HAGPLU, SKUTTE, PYROCH, POWELL, TALC, NONTRO, HANKSI, BADDEL, TFRRAH, YODERI, ALLEGH, ALABAN, DETAFI, ZINCIT, LOLLIN, DIOPTA, POSNJA, CAVOLB, DAMSON, VANDEN, GLAUNI, EPIDOT, PECTOL, EUENI, TEPHRO, CROOKE, SPHENE, NAHCOL, SPESSA, GUPHYL, HAVELL, HELLIT, SLLIGHT, CHAPMA, GREENA, SCOROD, SZMIKI, HARDIT, HELOGA, ARDENC, MONTIC, HELVIN, TAPIOL, DANALI, GONCH.

2.59

Table with 4 columns: ID, Name, Value, and Rank. Contains names like ACANTH, STEPHA, SANARS, BLOMST, VESUVI, ALMAND, SAFFLO, BECOUE, PARAVA, NAKSAR, SAKHAI, MOTRA, ANTLER, CARMIN, CELADO, TOURMA, BURKEI, GENTHE, WARVIC, UPHANNR, HYTALC, SCHOEP, VOLBOR, SPANGO, STEIGE, TUNGST, PAIGEI, PIRSSO, SENGIE, KIESER, BAYENI, KNEBEL, HIXITE, FAYALI, ASTROP, MYHTLO, PHYRARG, BYSTRO, HODGKI, CORYNI, MNSITE, PALYGO, AENIGH, BILLIE, FRIEDE, HEMHO, GANCRI, SODALI, LUDWIG, SHORTI, KOLOVR, VESIGN, PSIDER, XENOTI, MONTHO, PYROPH, FLUOBO, RAMSDE, STILPN, CHRYBE, JOESHI, TEPHRO, PREHNI, TRIPUM, PROUST, XANTPH, GADOLI, RAMMEL, LANGBA, GNOCHL, BERTR, EUKRYP, COLEMA, MUSCOV, CORIND, ELPIDI, HERDER, CONICH, FRANKL, TENMAN, PARARA, HAKOKI, NUMAN, ASLITE, HUNNER, BANDYL, STRENG, LUDLAM, BERTRA, TRIPHY, EGLEST, ALBITE, CONOHU, PYRARG, BEZTII, JACOBS, MAGNET, TAEUKE, GERSDO, ILMENE, GUDMUN, VANDRI, BROCHA, FENGER, AZOPRO, AZURIT, KIESER, GUNNIN, MINNES, KISSON, OLTIGOC, BENSTO, JESMII, SILLIM.

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2.53

2.53	6	3.15	8	3.00	10	2.88	8	1.89	6	POLYBA	649
2.53	1	3.04	10	2.31	4	2.13	1	1.94	4	NITRAT	749
2.53	9	3.00	10	2.90	7	1.63	5	1.42	3	AUGITE	674
2.53	10	2.97	5	2.10	4	1.62	7	1.48	8	MGFERR	502
2.53	8	2.61	10	2.33	10	1.86	8	1.46	9	LOLLIN	493
2.52	9	7.25	9	3.62	10	2.43	2	2.15	2	ANTIQ	733
2.52	9	6.50	5	4.88	4	3.44	8	2.79	10	NACHAL	15
2.52	6	6.28	8	3.52	6	3.08	7	2.72	10	ALLUAV	575
2.52	6	5.99	7	5.06	8	3.69	9	2.85	10	MALACH	506
2.52	6	4.80	7	3.44	10	3.29	3	3.10	6	SZOMOL	793
2.52	6	4.00	5	3.27	7	2.78	10	2.38	5	NASONI	571
2.52	7	3.97	6	3.56	10	3.12	8	1.95	6	BINITE	106
2.52	8	3.88	6	2.76	6	2.46	10	1.75	9	FORSTE	597
2.52	9	3.28	10	2.22	3	1.71	10	1.38	4	STRUVE	778
2.52	5	3.19	10	2.36	5	1.94	8	1.38	9	KYANIT	460
2.52	6	3.18	10	1.91	5	1.60	5	1.47	6	MARGAR	511
2.52	6	3.17	10	2.98	6	2.88	9	1.49	4	ENSTAT	675
2.52	10	2.94	7	2.07	7	1.60	9	1.46	9	CHROMI	193
2.52	6	2.69	10	1.84	4	1.70	7	1.48	4	HEMATI	396
2.52	10	2.33	10	1.87	3	1.50	2	1.38	2	TENORI	804
2.51	3	8.59	10	4.29	10	2.29	3	2.00	5	CUALUM	173
2.51	3	7.20	9	4.44	10	3.62	7	2.33	3	HALLOY	379
2.51	10	5.44	8	2.70	9	1.99	8	1.52	5	PIWAKI	638
2.51	10	5.13	8	2.66	8	2.57	8	2.02	8	PIRSO	639
2.51	6	5.08	10	3.39	9	3.17	3	2.67	3	DEVILL	256
2.51	7	4.82	6	2.78	10	2.23	6	1.86	9	MILLER	543
2.51	8	4.44	7	3.30	10	2.07	6	1.71	9	ZIRCON	899
2.51	5	4.01	7	3.72	7	3.19	10	2.92	5	HIGHAL	296
2.51	6	4.01	7	3.73	6	3.19	10	2.92	5	LABRAD	298
2.51	5	3.89	8	3.59	10	2.78	7	2.10	5	COTUNN	225
2.51	5	3.76	6	3.11	10	2.05	9	2.24	6	BAKERI	68
2.51	7	3.71	9	3.27	7	3.05	10	2.91	6	ALLACT	11
2.51	3	3.66	5	2.96	10	1.72	5	1.46	5	COLUMB	211
2.51	8	3.65	8	3.12	10	2.36	7	2.19	8	PHENAK	630
2.51	9	3.58	7	2.85	10	2.57	7	1.78	10	KNEBEL	454
2.51	6	3.56	10	2.91	7	1.94	6	1.78	8	SHALIT	781
2.51	9	3.29	10	2.29	7	2.05	6	2.00	6	LAURIO	468
2.51	5	3.12	10	2.81	6	1.87	7	1.68	6	LITHAR	491
2.51	4	3.07	4	2.99	4	2.75	10	1.64	5	GRIPIHI	369
2.51	10	2.86	4	2.24	4	1.66	4	1.51	4	DELAFO	252
2.51	2	2.75	10	2.10	7	1.94	2	1.70	6	MAGNES	503
2.51	6	2.84	10	2.06	3	1.76	3	1.56	8	BAFERT	67
2.50	7	7.97	10	3.24	9	2.78	9	2.28	10	DONNEL	214
2.50	10	7.95	7	3.93	8	3.59	8	2.98	9	APOPHY	40
2.50	8	7.32	10	4.56	5	3.67	9	1.54	7	CHRYSO	734
2.50	7	7.08	7	4.70	9	3.53	9	2.32	10	COOKEI	190
2.50	4	5.76	3	4.35	6	3.77	8	2.86	10	OFFRET	592
2.50	10	4.77	4	2.08	5	1.60	6	1.47	7	PIGROC	637
2.50	4	4.67	4	3.53	10	2.65	9	1.82	8	WAKEFI	868
2.50	10	3.55	8	2.83	9	2.57	7	1.78	9	FAYALI	596
2.50	4	3.30	5	3.18	6	2.74	6	1.94	10	BORNIT	118
2.50	5	3.02	10	2.77	4	2.24	5	1.89	6	SCAWTI	718
2.50	9	3.02	6	2.89	6	1.93	6	1.77	10	TYRREL	840
2.50	9	2.94	10	2.84	8	2.43	6	1.38	6	JADEIT	676
2.50	10	2.92	6	2.86	2	1.58	5	1.47	6	GALAXI	326
2.50	7	9.10	9	4.60	7	3.12	10	1.61	7	LANTHA	465
2.49	4	8.35	10	3.07	7	2.76	8	2.63	5	CUMMIN	244
2.49	9	7.86	7	4.28	10	3.46	10	3.03	6	BIXITA	101
2.49	10	7.50	10	3.43	3	3.30	3	2.62	6	CALUME	153
2.49	5	7.25	10	6.24	10	3.80	10	3.12	9	KALIBO	446
2.49	8	7.03	10	3.56	8	2.13	7	1.77	7	LANGIT	464
2.49	9	6.33	10	3.71	10	2.98	9	2.83	9	PARADA	608
2.49	3	5.91	10	3.65	8	2.97	6	2.35	6	WHEWEL	876
2.49	6	4.67	7	3.51	10	3.33	10	1.88	8	AUGELI	56
2.49	6	4.44	3	2.92	8	1.64	6	1.49	10	CHRYCO	195
2.49	8	4.29	10	3.38	8	2.64	9	2.22	8	MONTRO	556
2.49	2	4.05	10	2.84	1	1.93	1	1.87	1	CRISTO	230
2.49	5	3.59	10	3.50	6	2.08	5	1.93	4	CERUSS	170
2.49	9	3.51	6	3.14	10	2.24	10	1.33	10	BAOTIT	70
2.49	9	3.27	8	3.19	7	2.75	10	2.56	8	PROUST	659
2.49	5	3.25	10	2.19	3	1.69	9	1.62	2	RUTILE	702
2.49	8	3.04	9	2.71	10	1.96	7	1.62	8	PLAZOL	606
2.49	10	2.92	2	2.05	5	1.59	6	1.47	7	HGHORO	581
2.49	10	2.78	8	2.27	9	1.68	10	1.49	8	COBALT	245
2.48	10	6.66	10	3.15	6	2.72	8	1.69	5	HYZINC	424
2.48	8	6.32	10	3.43	4	2.74	8	1.79	4	SINSEX	784
2.48	7	6.28	9	4.48	9	3.35	10	2.71	7	SODDYI	750
2.48	10	4.96	5	3.22	4	2.70	9	2.11	6	NORTHU	590
2.48	6	4.88	6	3.75	6	2.98	10	2.95	9	HUBNER	413
2.48	7	4.77	6	3.74	6	2.95	10	1.72	6	WOLFRA	882
2.48	6	4.70	8	3.75	7	2.94	10	1.72	8	FERBER	302
2.48	8	4.60	10	3.12	10	2.61	5	1.53	9	TALC	794
2.48	5	4.27	10	4.08	8	3.80	9	2.95	6	TRIDYM	827
2.48	10	4.02	10	3.29	8	2.77	8	1.80	8	CHKALO	187
2.48	4	3.96	5	3.86	9	2.96	10	1.90	4	ROSENB	699
2.48	9	3.63	8	2.68	9	1.81	6	1.67	10	ESKOLA	286
2.48	7	3.50	10	2.88	10	1.86	10	1.28	7	PLATTN	644
2.48	10	3.08	7	2.76	9	1.58	5	1.54	8	HAUSMA	389
2.48	7	2.86	10	1.75	6	1.49	7	1.43	2	PB	474
2.48	8	2.82	9	2.56	10	1.87	8	1.69	4	RAMHEL	682
2.48	10	2.82	8	2.61	5	1.63	5	1.48	5	ZINCIT	896
2.48	7	2.15	10	1.52	7	1.30	3	1.24	2	HUSTIT	887
2.47	3	6.15	3	4.35	5	3.59	10	3.14	7	CNOCLA	201
2.47	7	5.91	7	4.82	9	2.98	10	2.39	7	OLIVEN	595
2.47	10	4.66	5	3.44	9	2.64	9	1.50	6	NOLANI	578
2.47	10	4.55	8	2.97	9	2.63	9	1.80	7	GAUDEP	338
2.47	7	4.50	5	3.51	8	3.18	10	2.92	8	NEPTUN	578
2.47	4	3.72	5	3.09	6	2.87	10	1.76	6	HARDYS	385
2.47	5	3.12	7	2.95	6	2.88	8	2.75	10	BABING	65
2.47	7	3.03	7	2.71	9	1.68	6	1.62	10	SCHORL	334
2.47	10	3.02	2	2.14	5	1.51	5	1.29	5	CUPRIT	238
2.47	6	2.75	10	2.25	6	1.95	6	1.66	10	CATTIE	163
2.47	8	2.75	10	2.42	8	1.82	9	1.64	4	GLAUDO	353
2.47	5	2.30	4	2.09	10	1.68	2	1.33	3	ZN	895
2.46	7	7.08	10	4.65	6	3.55	10	1.95	8	CHAMOS	182
2.46	7	6.97	10	3.47	9	2.66	7	2.08	7	GERMAR	344
2.46	9	6.28	10	3.29	8	1.94	7	1.73	4	LEPIDO	479
2.46	2	4.95	2	4.65	10	2.36	2	1.81	1	PYROCR	669
2.46	10	4.90	9	2.99	9	2.70	8	1.62	9	ADAMIT	2
2.46	5	4.84	10	4.01	5	2.79	5	1.75	5	ORPIME	600
2.46	6	4.82	10	3.71	10	3.30	10	2.68	8	MICRSO	541
2.46	7	4.70	7	3.42	10	2.28	7	1.90	8	BRANNE	125
2.46	10	3.88	6	2.76	6	2.52	8	1.75	9	FORSTE	597

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2.46	4	3.78	9	2.95	10	2.07	4	1.83	5	OTAVIT	601
2.46	10	3.56	9	2.95	7	2.70	6	2.57	7	MIXITE	548
2.46	5	3.54	10	3.45	7	2.05	7	1.90	4	STRONT	777
2.46	4	3.44	10	3.03	4	2.04	4	1.96	5	GALENO	328
2.46	5	3.05	10	2.68	6	2.04	5	1.88	5	AGDITE	45
2.46	10	2.99	4	2.69	9	1.56	5	1.51	6	HFTAER	401
2.46	5	2.95	4	2.75	10	2.59	8	1.62	7	WFSUI	860
2.46	6	2.84	9	3.65	6	2.64	6	1.53	10	GARNIE	353
2.45	3	4.96	10	3.49	9	2.92	2	2.70	6	SALEEI	707
2.45	10	4.82	7	4.40	6	2.97	10	2.70	10	TYROLI	841
2.45	10	4.68	9	4.06	4	2.87	4	2.34	6	NITBAR	586
2.45	5	4.21	6	2.93	10	2.80	8	1.57	7	SPODUM	760
2.45	4	4.18	10	2.69	7	2.19	4	1.72	4	GOETHI	356
2.45	8	4.17	8	3.20	3	2.67					

2.36

2.36	6	3.77	7	2.98	8	2.72	7	2.01	10	AUSTIB	59
2.36	7	3.74	10	3.20	7	3.00	10	2.70	8	DUFYOY	269
2.36	5	3.69	7	3.20	9	2.94	10	2.10	6	TOPAZ	823
2.36	7	3.65	8	3.12	10	2.81	8	2.19	8	PHENAK	630
2.36	7	3.35	1	2.83	10	1.51	7	1.66	8	LINNAE	488
2.36	7	3.34	5	2.85	10	1.82	7	1.67	9	POLYDY	650
2.36	7	3.34	6	2.85	10	1.81	7	1.67	9	STEGEN	739
2.36	7	3.22	10	2.19	6	1.81	3	1.49	2	MEHRLI	874
2.36	5	3.19	10	2.52	5	1.94	8	1.38	9	KYANIT	460
2.36	7	2.59	10	2.42	2	1.85	7	1.64	6	SAFFLO	703
2.36	4	2.16	4	2.07	10	1.60	3	1.23	5	IRIDOS	432
2.36	10	2.04	5	1.44	3	1.23	4	1.13	2	AU	357
2.35	7	7.90	10	3.96	9	2.63	6	2.00	7	BRUGNA	137
2.35	6	7.10	10	3.58	4	2.66	5	2.57	8	SPANGO	752
2.35	6	5.91	10	3.65	8	2.97	6	2.49	3	WHEMEL	876
2.35	8	4.35	10	3.71	10	2.96	10	2.09	7	ANCYLI	28
2.35	10	4.25	7	1.77	6	1.57	5	1.34	4	COALIN	204
2.35	4	4.84	9	3.00	3	2.71	6	2.56	10	STILPN	772
2.35	4	3.83	4	2.72	10	1.66	9	1.42	8	3IXBYI	108
2.35	4	2.72	10	2.15	4	1.66	7	1.42	6	BRAUNI	126
2.34	8	9.41	10	4.75	10	2.59	9	2.05	7	CUPHYL	177
2.34	6	9.00	8	4.60	8	3.49	10	1.53	8	SPFNCE	753
2.34	6	6.09	10	2.71	7	2.19	6	1.58	7	MOLYBR	550
2.34	6	4.68	9	4.06	4	2.87	4	2.45	10	NITBAR	586
2.34	8	4.17	6	3.51	10	2.78	8	2.64	6	TWINNI	838
2.34	5	3.90	6	2.75	9	1.95	10	1.57	5	CRYOLI	233
2.34	4	3.60	4	2.96	5	2.76	10	1.70	5	MELIPH	523
2.34	4	3.56	6	2.75	10	1.95	4	1.71	8	SHITHS	747
2.34	4	3.39	8	2.90	10	2.22	4	1.87	4	ANHYDR	33
2.34	5	3.31	10	2.57	9	1.73	9	2.09	8	RATHW	684
2.34	7	2.88	6	2.57	10	1.74	8	1.39	8	BYSTRO	145
2.34	3	2.82	10	2.07	5	1.93	5	1.56	6	CORYNI	223
2.34	9	2.19	6	2.06	10	1.35	4	1.24	3	BROMEL	133
2.33	6	7.76	10	3.90	8	2.62	5	1.97	8	PYROAU	667
2.33	3	7.20	9	4.44	10	3.62	7	2.51	3	HALLOY	379
2.33	9	7.14	10	4.13	5	3.58	10	1.65	5	DICKIT	261
2.33	4	4.85	6	3.35	10	3.25	5	3.17	5	BARBOS	71
2.33	6	3.68	8	3.26	10	2.84	7	2.04	6	STERRY	767
2.33	4	3.56	4	2.76	10	2.23	4	1.78	4	TRIFER	828
2.33	7	3.48	10	2.94	8	2.75	10	2.63	6	SARTOR	715
2.33	4	3.45	6	2.71	10	2.41	4	1.76	7	MARCAS	510
2.33	5	3.42	4	3.30	5	2.85	10	2.04	5	TEALLI	798
2.33	10	2.61	10	2.53	8	1.86	8	1.64	9	LOLLIN	493
2.33	10	2.52	10	1.87	3	1.50	2	1.38	2	TENORI	804
2.32	3	7.88	10	3.92	5	2.59	4	1.96	3	STICHT	770
2.32	10	7.08	7	4.70	9	3.53	9	2.50	7	COOKEI	190
2.32	10	7.08	10	4.37	8	3.59	10	1.49	9	KAOLIN	447
2.32	6	6.65	10	3.23	7	3.00	7	2.72	7	ERYTHR	285
2.32	9	5.18	8	2.91	10	2.00	7	1.55	7	CHIOLI	186
2.32	6	4.49	10	3.46	6	2.40	7	2.39	7	PSMALA	661
2.32	8	4.42	10	3.83	9	2.79	9	2.38	8	BOLEIT	113
2.32	9	4.41	10	1.81	8	1.43	3	1.36	2	HETGEN	402
2.32	8	4.04	6	3.48	9	2.84	10	2.63	10	WILLEM	879
2.32	6	3.99	10	2.13	5	2.08	5	1.63	5	DIASPO	260
2.32	4	3.60	5	2.98	5	2.75	10	1.70	5	LEUPHA	481
2.32	4	3.28	10	2.56	9	1.72	9	1.64	5	TRIPUH	831
2.32	3	2.85	9	2.77	10	1.95	5	1.84	5	CLAPAT	188
2.32	6	2.77	10	2.44	6	2.12	8	2.03	7	PETZIT	627
2.32	10	2.68	2	1.64	8	1.34	5	1.16	3	VILLIA	861
2.31	8	5.03	10	2.98	8	1.83	5	1.81	7	HACKIN	499
2.31	10	4.62	7	2.63	2	1.74	7	1.54	6	MUSKOX	565
2.31	8	3.62	10	3.47	10	2.16	10	1.93	8	PANDER	606
2.31	4	3.13	10	3.00	10	1.83	5	1.76	5	CUSTIB	180
2.31	4	3.04	10	2.53	1	2.13	1	1.94	4	NITRAT	749
2.31	9	2.83	6	2.54	10	2.00	4	1.71	9	GERSDO	346
2.30	7	7.63	7	3.85	10	2.57	8	1.95	9	HYTALC	423
2.30	9	7.44	10	6.19	10	3.87	9	3.18	10	CALLAG	151
2.30	8	4.98	8	3.00	10	1.91	8	1.51	7	ALUNIT	18
2.30	8	4.58	10	3.36	7	3.16	8	1.93	8	GEARKS	340
2.30	6	4.35	5	3.65	4	2.79	10	2.39	6	HAUCHE	387
2.30	5	3.72	9	3.28	10	3.01	6	2.73	5	TELLUR	800
2.30	10	2.99	6	2.86	8	2.24	7	2.14	6	HESSIT	400
2.30	6	2.95	10	2.77	9	2.45	6	1.81	6	PEARCE	618
2.30	4	2.47	5	2.09	10	1.68	2	1.33	3	ZW	895
2.29	3	8.59	10	4.29	10	2.51	3	2.00	3	CUALUM	173
2.29	10	7.95	10	3.27	7	2.16	9	1.62	8	GUTTGE	144
2.29	4	7.90	10	3.95	9	2.88	5	2.44	4	HYCALU	420
2.29	4	5.87	10	3.60	4	3.05	10	1.95	4	BEAVER	83
2.29	9	5.51	9	3.31	10	2.93	7	1.76	7	DIABOL	257
2.29	5	5.04	4	3.08	10	1.97	5	1.82	5	JAROSI	438
2.29	8	4.96	4	3.21	10	2.72	8	2.56	5	VESIGN	859
2.29	4	4.44	10	2.95	3	2.36	4	1.58	3	CLTOID	191
2.29	6	3.94	4	3.73	10	1.95	5	1.33	3	IDYRI	431
2.29	9	3.74	10	1.95	8	1.48	3	1.32	4	COLORA	210
2.29	7	3.29	10	2.51	9	2.05	6	2.00	6	LAURID	468
2.29	9	3.23	10	1.86	5	1.45	6	1.31	5	ALTAIT	16
2.29	7	3.19	10	3.02	10	2.63	10	1.71	8	ISOKIT	434
2.29	5	3.15	10	2.17	7	1.78	3	1.58	2	JOSEIT	443
2.29	7	3.10	10	2.11	8	1.95	5	1.35	5	TETRAD	806
2.29	8	2.71	10	2.55	6	2.22	10	2.06	8	HAROKI	513
2.28	10	7.97	10	3.24	9	2.74	9	2.50	7	CONNEL	214
2.28	5	6.15	10	2.05	4	1.83	4	1.54	4	MOLYBH	549
2.28	7	4.70	7	3.42	10	2.46	7	1.90	8	BRANNE	125
2.28	6	4.37	10	3.18	9	2.54	8	2.22	6	BERTRA	90
2.28	7	3.92	6	3.65	9	2.84	10	2.37	6	BEONIT	92
2.28	8	3.90	8	3.16	10	2.88	5	2.63	7	BOGGIL	112
2.28	5	3.05	10	2.09	5	1.91	6	1.87	6	CALCIT	149
2.28	8	2.82	10	2.73	9	1.95	8	1.84	8	WILKEI	878
2.27	4	4.37	10	4.01	6	2.91	8	2.00	4	MOORHO	558
2.27	7	3.77	7	3.48	7	3.00	10	1.73	7	LIVING	492
2.27	5	3.58	10	2.90	5	2.71	4	1.79	5	MATLOC	518
2.27	5	3.28	10	2.37	4	1.87	4	1.44	4	BI	105
2.27	9	2.78	8	2.49	10	1.68	10	1.49	8	COBALT	205
2.26	4	8.50	10	4.29	5	2.80	6	1.90	3	SCHOLZ	724
2.26	7	5.99	8	3.66	7	3.08	10	1.98	7	BEUDAN	99
2.26	8	5.47	10	2.75	9	1.81	4	1.70	7	PARATA	611
2.26	10	4.86	4	3.01	5	2.82	9	2.76	10	ATACAM	54
2.26	8	4.51	10	4.17	8	3.55	5	2.72	7	ALUMEN	17
2.26	10	3.70	5	2.76	7	2.54	6	1.74	10	CNOHUM	202
2.26	10	3.64	5	2.45	9	1.74	10	1.48	9	HUMITE	415

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2.26	6	3.56	10	3.11	6	1.83	8	1.78	8	UMANGI	845
2.25	7	7.14	5	3.51	5	2.69	10	1.84	5	PYROSH	673
2.25	7	4.96	5	3.97	7	3.09	10	2.77	8	NITRAM	22
2.25	4	4.92	4	3.44	5	3.25	10	2.77	4	CLAUDE	198
2.25	4	4.38	4	3.49	6	3.28	10	3.03	7	CROCOI	231
2.25	8	3.10	10	2.15	8	1.77	6	1.37	5	SB	35
2.25	4	3.05	10	2.98	5	2.14	5	1.99	5	SVLVAN	787
2.25	6	3.03	8	2.87	10	2.69	8	2.07	8	BUEITSC	139
2.25	5	2.96	10	1.98	8	1.53	10	1.23	6	SITSHO	773
2.25	6	2.75	10	2.47	6	1.95	6	1.66	10	CATTIE	163
2.25	3	2.12	4	1.99	10	1.55	1	1.31	1	ALGOOD	10
2.24	4	6.87	8	3.18	10	2.09	2	1.59	2	SASSOL	716
2.24	5	5.91	4	2.97	10	1.72	5	1.49	4	UVANIT	850
2.24	4	3.97	9	2.96	10	2.67	7	2.21	4	CYMRIT	244
2.24	6	3.76	6	3.11	10	2.85	9	2.51	5	BAKERI	643
2.24	10	3.54	9	3.20	9	2.88	8	1.84	9	GEOCRO	38
2.24</											

2.16

Table with 5 columns: ID, Name, Value, Name, Value. Lists names like GRAYIT, BARYCA, MICROCA, WITHER, PANDER, CRANDA, WOODHO, HAUIRE, PERRIE, IRIDDS, HAUYNE, XENDTI, BROCKI, MONAZI, AFWILL, JARLIT, SB, BRAUNI, WUSTIT, DOMEKY, NOSEAN, BURBAN, ANTLER, PROSPD, PLAGIN, BITTIE, KOBELL, BORACI, TIEMAN, MARSHI, FRESNO, SCHIZO, METJAR, SYLVAN, CUPRIT, HESSIT, AENIGM, LANGIT, XANTCO, BRACCKE, FLUOBO, PARSON, AERINI, DIASPO, BENSTO, JOESMI, SIDERI, ALLEMO, STEPHA, NITRAT, SIMPSO, SCHREI, DIOPTA, DAVNYE, AMBYLG, HAMBER, BARITE, FULOPP, SPHECO, ZINCOE, GUITER, FRANKL, PETZIT, ALGODO, FPANCE, SAKHAI, AZOPRO, DUFREN, NORTHU, LEADHI, SPERRY, HIMETI, CROOKE, RHODIZ, XANTPH, TEFRAD, HELGAR, PERICL, SCHREI, SODALI, COTUNN, TOPAZ, GASPEI, GALENA, KORNER, LAITAK, CALAVE, JACOBS, HGFERR, MAGNET, MAGNES, GINDRI, SASSOL, ODMORT, BRANDT, ANCYLI, CHRYZE, FIZELY, CORIND, PLAYFA, ONDRFI, RATHWH, MFNDIP, CALCIT, TROILI, ZN, JUNSEN, SASSOL, GERHAR, ZFUNER, SZAFIB, PICROC.

2.08

Table with 5 columns: ID, Name, Value, Name, Value. Lists names like ARCANI, SORBYI, DIASPO, SE, NADORI, MENEGB, CERUSS, CHAMBE, FREHES, NAGYAG, HOWLIT, ZIRCON, ANGLAS, EULYTI, OTAVIT, GREENO, METGIN, FTNMEM, FRESNO, BUETSC, PYRROH, CHROMI, MELONI, IRIDDS, PAIGIE, PARAGU, SYNGHI, FRANGK, CORRET, CALONE, PYROMO, PETALI, FLUCOE, BORACI, HAWLEY, SPHENE, TETRAH, GALAXI, SN, HAROKI, SAFERT, BROMEL, OTAMON, CUPHYL, MOLYBH, CVLTON, TUVYAM, STRONT, AS, OMYHEE, ARAMAY, LANARK, LAURIO, MCGHRO, BREITH, AMALGA, DOMEKY, JOSEPH, AWARUI, JILLIE, SCHOPF, LEMGEN, HOWLIT, LUDWIG, STEIGE, VANDEF, TRONA, JASTNA, HEAZLE, STERRY, XONOTL, PARISII, GALENO, TFALLI, BERZEL, NATILO, CELEST, AGOITE, AG, AC, NADORI, FININI, STROME, COSALI, DIAPHO, SCHIRM, SAPHOL, SAPHHI, FEDOLO, HERCYN, HILGAR, PETZIT, HUCHE, FE, FEMUD, AZOPRO, PIRSSO, APHTHI, KOBELL, GUERIN, WULFEN, STOLZI, SN, BRARGY, SPINEL, SCHREI, CNOCHL, CLARKE, COLEMA, CRNEB, WELGUA, LAUNAY, EULYTI.

2.08

2.01

2.01

Table with columns for numbers and names. Includes entries like 2.01 10 3.77 7 2.98 8 2.72 7 2.36 6 AUSTIB 58, 2.01 3 3.66 3 2.85 10 2.17 3 1.77 5 RHODOC 692, etc.

1.94

Table with columns for numbers and names. Includes entries like 1.94 5 3.26 10 3.13 7 2.96 5 2.55 5 ELPIDI 273, 1.94 8 3.58 6 3.47 6 3.33 6 2.85 10 PAVONI 617, etc.

1.94

1.86

1.86

Table with 4 columns of numbers (e.g., 1.86 3 4.90 5 3.48 10) and 10 columns of names (e.g., PSBROD, MILLER, THENAR, NISSON, BROCKI, PLATTN, ALTATT, ENARGI, RINKIT, CUPYRI, BINDHE, TETRAH, LOLLIN, BASSAN, ERIOCH, TUNGST, PARSON, BOURNO, GLAUCH, THOREA, CHAMBE, LYNDCC, SAFFLO, PYROSM, PYROCH, MICROL, PROSOP, TE, GEOCRO, MOSAND, MONETI, LANARK, CROOKE, NIICAL, STEPHA, HALPERI, ALBAPAT, WILKEI, HEMATI, SKUTTE, CRYPTME, HOLYBH, MACKEN, THORIT, THGUMH, FRANCK, HEAZLE, SPENCI, OTAVIT, TETRAH, EUXENI, UMANGI, TIEHAN, JORDAN, CORONA, CARROL, GLOCKM, GUTTEP, SYLVIT, CUSTIB, BETEKH, NAGYAG, PSILOM, OKENTY, GREENA, FITUNG, PBJUARO, ROMELIT, AMJARO, SAKHAI, JAROST, WAKEFI, LINARI, OLITGOC, PYRABO, MONTI, YODERI, MARSHI, ZINCKE, POLYUD, BETAFI, SAMARS, BLOHST, HILGAR, PARARA, GLAUDD, ASPYRI, STIBIC, PARTZI, CYLIND, PARATA, MACKIN, CHABAZ, PYRABO, VALENT, HETGEN, PROSOP, QUARTZ, ESKOLA, TEPHRO, MIARGY, LINNAE, SIEGEN, ALLEGH, TEBISH, WEHRLI, JARLIT, MONTDI, PEARCF, FEODLO, LEUPHO)

1.81

Table with 4 columns of numbers (e.g., 1.81 9 2.68 10 2.45 10) and 10 columns of names (e.g., PENROS, NICKEL, CU, SHATTU, PORTLA, BRUCIT, COFFIN, CARMIN, GAUDEF, MICROC, CHKALO, EPIDD, SPERRY, BLOHST, TENNAN, TACUEI, DOLOMI, DAVIDI, SUSSEX, ULLMAN, FLUDCE, MATLOC, GALENA, ONOFRI, DOLOMI, WEBERI, PENTLA, MORINI, CORNEB, SHALIT, TRIMER, UMANGI, FAYALI, MANGAN, WULFEN, STOLZI, JOSEFI, JOSEPH, LANGIT, COALIN, BOURNO, RHODOC, CLAUST, PREHNI, CASSIT, BUSTAM, SB, TYRREL, AWARUI, RALSTO, DIABOL, XENITI, WITTI, AKERHA, THOMSE, SCHAI, HARDYS, AIKINI, ASTROP, MARCAS, METCIN, CUSTIB, BAFER, GORCEI, ANALCI, ORPIE, TRIPHY, FORSTE, GREENO, CRANDA, CUBANI, MINIUP, HAWLEY, TAPIL, GEHLEN, THOMI, CHONDR, MUSKOC, SAPONI, CNODUM, MAOCCI, HUMIFI, SIDERI, WOODHO, CERITE, FRZEL, JISMII, IILASI, CORYNI, LEPIDO, SALAMH, LIVING, EUXENI, POLLUC, YSTRO, ENARGI, LAITAK, NORBER, COWELL, PYRRHO, PARARA, ILHNERI, ENGLIS, UVANIT, ROSELB, WOLFRA, FERBER, GOETHI, COLUMB, SPHECO, RONCHE)

1.81

Table with 4 columns of numbers (e.g., 1.81 3 4.90 5 3.48 10) and 10 columns of names (e.g., PSBROD, MILLER, THENAR, NISSON, BROCKI, PLATTN, ALTATT, ENARGI, RINKIT, CUPYRI, BINDHE, TETRAH, LOLLIN, BASSAN, ERIOCH, TUNGST, PARSON, BOURNO, GLAUCH, THOREA, CHAMBE, LYNDCC, SAFFLO, PYROSM, PYROCH, MICROL, PROSOP, TE, GEOCRO, MOSAND, MONETI, LANARK, CROOKE, NIICAL, STEPHA, HALPERI, ALBAPAT, WILKEI, HEMATI, SKUTTE, CRYPTME, HOLYBH, MACKEN, THORIT, THGUMH, FRANCK, HEAZLE, SPENCI, OTAVIT, TETRAH, EUXENI, UMANGI, TIEHAN, JORDAN, CORONA, CARROL, GLOCKM, GUTTEP, SYLVIT, CUSTIB, BETEKH, NAGYAG, PSILOM, OKENTY, GREENA, FITUNG, PBJUARO, ROMELIT, AMJARO, SAKHAI, JAROST, WAKEFI, LINARI, OLITGOC, PYRABO, MONTI, YODERI, MARSHI, ZINCKE, POLYUD, BETAFI, SAMARS, BLOHST, HILGAR, PARARA, GLAUDD, ASPYRI, STIBIC, PARTZI, CYLIND, PARATA, MACKIN, CHABAZ, PYRABO, VALENT, HETGEN, PROSOP, QUARTZ, ESKOLA, TEPHRO, MIARGY, LINNAE, SIEGEN, ALLEGH, TEBISH, WEHRLI, JARLIT, MONTDI, PEARCF, FEODLO, LEUPHO)

1.72

Table with 4 columns of numbers (e.g., 1.72 6 3.51 10 3.09 8) and 10 columns of names (e.g., PENROS, NICKEL, CU, SHATTU, PORTLA, BRUCIT, COFFIN, CARMIN, GAUDEF, MICROC, CHKALO, EPIDD, SPERRY, BLOHST, TENNAN, TACUEI, DOLOMI, DAVIDI, SUSSEX, ULLMAN, FLUDCE, MATLOC, GALENA, ONOFRI, DOLOMI, WEBERI, PENTLA, MORINI, CORNEB, SHALIT, TRIMER, UMANGI, FAYALI, MANGAN, WULFEN, STOLZI, JOSEFI, JOSEPH, LANGIT, COALIN, BOURNO, RHODOC, CLAUST, PREHNI, CASSIT, BUSTAM, SB, TYRREL, AWARUI, RALSTO, DIABOL, XENITI, WITTI, AKERHA, THOMSE, SCHAI, HARDYS, AIKINI, ASTROP, MARCAS, METCIN, CUSTIB, BAFER, GORCEI, ANALCI, ORPIE, TRIPHY, FORSTE, GREENO, CRANDA, CUBANI, MINIUP, HAWLEY, TAPIL, GEHLEN, THOMI, CHONDR, MUSKOC, SAPONI, CNODUM, MAOCCI, HUMIFI, SIDERI, WOODHO, CERITE, FRZEL, JISMII, IILASI, CORYNI, LEPIDO, SALAMH, LIVING, EUXENI, POLLUC, YSTRO, ENARGI, LAITAK, NORBER, COWELL, PYRRHO, PARARA, ILHNERI, ENGLIS, UVANIT, ROSELB, WOLFRA, FERBER, GOETHI, COLUMB, SPHECO, RONCHE)

1.72

Table with 5 columns of numerical data and 1 column of text labels. The first column contains values from 1.72 down to 1.63, and the text labels include names like TRIPUH, BERZII, and others.

1.63

Table with 5 columns of numerical data and 1 column of text labels. The first column contains values from 1.63 down to 1.55, and the text labels include names like CFRIAN, FERGUS, and others.

1.63

1.55

1.54

Table with 5 columns: number, value, name, value, name. Contains data for the 1.54 section, including names like CHRYSO, MOLYBH, PARTZI, PSBROO, MUSKOO, SAPONI, QUARTZ, CORDNA, COESIT, GRAPHI, HAUSHA, TENNAN, FAEXUE, CORYNI, PSILOM, SPENCE, GARNIE, WUSTIT, ALUNIT, STIISO, PINAKI, CHILDR, NONTRD, GLAUNI, BTOITI, SILLIM, WUSTIT, ALUNIT, AUSTIN, CUPRIT, LYNDOO, STAURO, HETAFR, DELFAO, ILMENI, NOLANI, MCNTHO, XANTPH, ALABAN, BETAFI, FRANKL, WARWIC, NICKEL, TENORI, KAOLIN, UVANIT, SAKHAI, CHRYCO, PYROPH, KORNER, WEHRLI, ENSTAT, JACOBS, MAGNET, COBALT, PERICL, CHONDR, FLUROB, GOLDBA, HUMITE, BRITHO, TFRISP, XANTPH, MGFERR, SN, ZINCIT, HEMATI, BUNSEN, ILVAIT, PICROC, MARGAR, GALAXI, MGCHRD, COLUMB, CHROMI, GUDUM, GIBBSI, ARDENN, HELVIN, ALTAIT, AMALGA, BI, PYROLU, SAPPHI, HFRCON, DAVIEN, AU, AG, FE, HETGEN, BERZEL, PARCY, GANNIT, PB, SPINEL, BIXBYI, AUGITE, SAPPHI, BREITH, NIGERI, BRAUNI, SYLVIT, HODGKI, GUDUMH, PSILOM, TIEHMAN, HARSHI, BYSTRO, STAURO, SIMPSO.

1.38

Table with 5 columns: number, value, name, value, name. Contains data for the 1.38 section, including names like BRUCIT, QUARTZ, STRUVE, KYANIT, JOSEIT, JADEIT, TENORI, CLAUST, GORIND, FLUORI, LOPARI, PT, HETGEN, PEROW, TETRAD, ASPYRI, BROMEL, COALIN, COESIT, HETCIN, HAWLEY, VILLTA, MNSITE, IODYRI, BAOTIT, GALENA, CUPYRI, TROILL, NICKEL, ZN, BOEHNIT, COLORA, MATILO, COLUSI, CALAVE, PYRRHO, ALTAIT, ALGODO, DOMEKY, ALABAN, WUSTIT, SYLVIT, CUPRIT, ALLEHO, PLATTIN, THORIA, BRARGY, MNSITE, JOSEPH, OLDMA, SPESSA, PERICL, EMBOLI, FLUORI, URANIN, YFLUOR, HALITE, BUNSEN, DIAMON, AWARUT, GERIAN, SPHAL, WUSTIT, AMALGA, BROMEL, GRAPHI, HANSON, FAMATI, STIISO, AU, IRIDOS, AG, COLUSI, CUPRIT, DIAMON, PERICL, RENIER, GERMAN, BUNSEN, BINOHE, CALAVE, MICROL, AMALGA, ROMEIT, AU, BERZEL, HAUERI, TENNAN, FAEXUE, PT, FE, ALTAIT, OLDMA, VILLTA, SPERRY, GRAPHI, HALITE, YFLUOR, PT, ONOFRI, CU, JOSEPH, AWARUT, FE, DIAMON.

1.39

Table with 5 columns: number, value, name, value, name. Contains data for the 1.39 section, including names like BRUCIT, QUARTZ, STRUVE, KYANIT, JOSEIT, JADEIT, TENORI, CLAUST, GORIND, FLUORI, LOPARI, PT, HETGEN, PEROW, TETRAD, ASPYRI, BROMEL, COALIN, COESIT, HETCIN, HAWLEY, VILLTA, MNSITE, IODYRI, BAOTIT, GALENA, CUPYRI, TROILL, NICKEL, ZN, BOEHNIT, COLORA, MATILO, COLUSI, CALAVE, PYRRHO, ALTAIT, ALGODO, DOMEKY, ALABAN, WUSTIT, SYLVIT, CUPRIT, ALLEHO, PLATTIN, THORIA, BRARGY, MNSITE, JOSEPH, OLDMA, SPESSA, PERICL, EMBOLI, FLUORI, URANIN, YFLUOR, HALITE, BUNSEN, DIAMON, AWARUT, GERIAN, SPHAL, WUSTIT, AMALGA, BROMEL, GRAPHI, HANSON, FAMATI, STIISO, AU, IRIDOS, AG, COLUSI, CUPRIT, DIAMON, PERICL, RENIER, GERMAN, BUNSEN, BINOHE, CALAVE, MICROL, AMALGA, ROMEIT, AU, BERZEL, HAUERI, TENNAN, FAEXUE, PT, FE, ALTAIT, OLDMA, VILLTA, SPERRY, GRAPHI, HALITE, YFLUOR, PT, ONOFRI, CU, JOSEPH, AWARUT, FE, DIAMON.

0.82

Table with 5 columns: number, value, name, value, name. Contains data for the 0.82 section, including names like BRUCIT, QUARTZ, STRUVE, KYANIT, JOSEIT, JADEIT, TENORI, CLAUST, GORIND, FLUORI, LOPARI, PT, HETGEN, PEROW, TETRAD, ASPYRI, BROMEL, COALIN, COESIT, HETCIN, HAWLEY, VILLTA, MNSITE, IODYRI, BAOTIT, GALENA, CUPYRI, TROILL, NICKEL, ZN, BOEHNIT, COLORA, MATILO, COLUSI, CALAVE, PYRRHO, ALTAIT, ALGODO, DOMEKY, ALABAN, WUSTIT, SYLVIT, CUPRIT, ALLEHO, PLATTIN, THORIA, BRARGY, MNSITE, JOSEPH, OLDMA, SPESSA, PERICL, EMBOLI, FLUORI, URANIN, YFLUOR, HALITE, BUNSEN, DIAMON, AWARUT, GERIAN, SPHAL, WUSTIT, AMALGA, BROMEL, GRAPHI, HANSON, FAMATI, STIISO, AU, IRIDOS, AG, COLUSI, CUPRIT, DIAMON, PERICL, RENIER, GERMAN, BUNSEN, BINOHE, CALAVE, MICROL, AMALGA, ROMEIT, AU, BERZEL, HAUERI, TENNAN, FAEXUE, PT, FE, ALTAIT, OLDMA, VILLTA, SPERRY, GRAPHI, HALITE, YFLUOR, PT, ONOFRI, CU, JOSEPH, AWARUT, FE, DIAMON.

APPENDIX 1

COMPUTER PROGRAM FOR X-RAY DIFFRACTION POWDER PATTERN RECOGNITION BY MINICOMPUTER

FTN,B

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PROGRAM XFILE
DIMENSION S(5),U(5)
2 WRITE(2,10)
10 FORMAT("PROG. FOR X-RAY MIN.IDENT., INPUT K=NO.OF STANDARDS *")
CALLPTAPE(7,2,0)
READ(1,*)K
13 WRITE(2,40)
40 FORMAT("INPUT MNF,U(1),U(2),U(3),U(4),U(5),TOL *")
READ(1,*)MNF,U(1),U(2),U(3),U(4),U(5),TOL
WRITE(2,30)
30 FORMAT(/"NFIT",X,5(2X,"D",4X,"I",2X)3X,"MIN.",8X,"NO",/)
TOL=TOL+(.005)
DO 29 JN=1,K
READ(7,20)S(1),INT1,S(2),INT2,S(3),INT3,S(4),INT4,S(5),INT5,
INA,NB,NC,MIN
20 FORMAT(5(F5.2,X,I2,2X)3X,A2,A2,A2,4X,I5)
NFIT=0
DO 9 I=1,5
DO 19 J=1,5
DEL=U(I)-S(J)
IF(DEL)21,23,23
21 DEL=DEL*(-1.)
23 IF(DEL-TOL)25,25,19
25 NFIT=NFIT+1
19 CONTINUE
9 CONTINUE
IF(NFIT-MNF)29,28
28 WRITE(2,70)NFIT,S(1),INT1,S(2),INT2,S(3),INT3,S(4),INT4,
IS(5),INT5,NA,NB,NC,MIN
70 FORMAT(X,I2,2X,5(F5.2,X,I2,2X)3X,A2,A2,A2,3X,I5)
29 CONTINUE
WRITE(2,80)
80 FORMAT(/"SEARCH COMPLETED"/)
REWIND 7
GO TO 2
END
ENDS
```