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New minerals recently approved by the Commission on New Minerals and Mineral Names International Mineralogical Association

The information given here is provided by the Commission on New Minerals and Mineral Names, I. M. A. for comparative purposes and as a service to mineralogists working on new species.

Each mineral is described in the following format:

IMA No. (any relationship to other minerals)
Chemical Formula
Crystal system, space group
unit cell parameters
Colour; lustre; diaphaneity
Optical properties
Strongest lines in the X-ray powder diffraction pattern

The names of these approved species are considered confidential information until the authors have published their descriptions or released information themselves.

No other information will be released by the commission

J.A. Mandarino, Chairman Emeritus, and J.D. Grice, Chairman
Commission on New Minerals and Mineral Names, International Mineralogical Association

1997 Proposals

IMA No. 97-001
Chemically related to paulkerrite
$(Bi,Pb)_2Fe(O,OH)_3PO_4$
Monoclinic: C2/m
a 12.278, b 3.815, c 6.899 Å, β 111.14°.
Black to dark brown; vitreous to adamantine; opaque to translucent.
Biaxial (–), α 2.06, β 2.15(calc), γ 2.19, 2V(meas.) 70°.
5.726 (54), 3.372 (77), 3.322 (37), 3.217 (46), 3.011 (100), 2.863 (34), 2.750 (62).

IMA No. 97-002
The boron-dominant analogue of gehlenite (melilite group)
$Ca_2B_2SiO_7$
Tetragonal: $P42_1m$
a 7.116, c 4.815 Å.
Creamy-white; earthy; earthy.
Probably uniaxial (–), n 1.67.
3.479 (40), 2.862 (55), 2.654 (100), 2.231 (15), 2.129 (20), 1.920 (35), 1.644 (20).

IMA No. 97-003
The Ti-dominant analogue of nenadkevichite
$NaK_2(Ti,Nb)_2Si_4O_{12}(O,OH)_2 \cdot 2H_2O$
Monoclinic: C2/m
a 14.39, b 13.900, c 7.825 Å, β 117.6°.
Colourless; vitreous; transparent to translucent.
Biaxial (+), α 1.667, β 1.677, γ 1.802, 2V(meas.) 32°, 2V(calc.) 33°.
6.94 (61), 6.39 (43B), 3.186 (100), 3.100 (96), 2.600 (28), 2.586 (28), 2.489 (24).

IMA No. 97-004
A polymorph of miargyrite
$AgSbS_2$
Cubic: Fm3m
a 5.650
Greyish black; metallic; opaque.
In reflected light: grey. R: (34.5%) 470 nm, (33.8%) 546 nm, (32.8%) 589 nm, (28.7%) 650 nm.
3.26 (9), 2.83 (10), 1.998 (8), 1.703 (6), 1.630 (5), 1.296 (2), 1.263 (3).

IMA No. 97-005
$(UO_2)H(AsO_3)$
Tetragonal: space group unknown
a 11.00, c 15.96 Å
Yellow; dull; translucent.
Uniaxial (–), ω 1.84, ε 1.75.
5.58 (8), 4.95 (10), 4.40 (6), 3.33 (8), 3.03 (6), 2.91 (5).

IMA No. 97-007
The Mn^{2+}-dominant analogue of nordite-(Ce)
$Na_3SrCeMnSi_6O_{17}$
Orthorhombic: Pcca
a 14.449, b 5.187, c 19.849 Å
Colourless, pale-brownish, brown; vitreous; transparent.
Biaxial (–), α 1.623, β 1.636, γ 1.642, 2V(meas.) 60°, 2V(calc.) 68°.
7.22 (38), 4.215 (100), 3.326 (67), 2.965 (83), 2.875 (55), 2.597 (54), 2.443 (35).

IMA No. 97-008
The Fe^{2+}-dominant analogue of nordite-(Ce)
$Na_3SrCeFeSi_6O_{17}$
Orthorhombic: Pcca
a 14.460, b 5.187, c 19.848 Å
Colourless or light coffee-colour; vitreous; transparent.
Biaxial (–), α 1.623, β 1.636, γ 1.642, 2V(meas.) 60°, 2V(calc.) 68°.
7.22 (41), 4.216 (100), 3.325 (67), 2.964 (73), 2.879 (62), 2.595 (46), 2.444 (31).

IMA No. 97-009
The calcium- and arsenate-dominant member of the mixite group
$CaCu_6[(AsO_4)_2(AsO_3OH)(OH)_6] \cdot 3H_2O$
Hexagonal: $P6_3/m$
a 13.571, c 5.880 Å
Pale green; vitreous; transparent.
Uniaxial (+), ω 1.688, ε 1.765.
11.64 (100), 4.431 (41), 3.387 (17), 3.254 (22), 2.9347 (42), 2.6932 (29), 2.5624 (30).

IMA No. 97-010
$Pb_4As_2S_7$
Orthorhombic: Pba2 or Pbam
a 15.179, b 38.117, c 4.0428 Å
Silvery lead grey; metallic; opaque.
In reflected light: white with a greenish tint, distinct anisotropism (dark grey to greenish grey, weak bireflectance, weak pleochroism. $R_{min.}$ & $R_{max.}$: (33.8, 34.0%) 470 nm, (31.8, 31.9%) 546 nm, (31.2, 31.3%) 589 nm, (30.4, 30.4%) 650 nm.
4.462 (40), 3.699 (37), 3.392 (100), 2.817 (45), 2.735 (31), 2.156 (25), 2.150 (22).

IMA No. 97-012
$Ca(Al,Fe^{2+},Mg,Mn)_2(AsO_4)_2(OH)_2$
Monoclinic: C2
a 8.9252, b 6.1427, c 7.352 Å, β 115.25°
Light brownish to brownish pink, orange-brown; vitreous; transparent.
Biaxial (sign unknown), n 1.76 parallel to fibre, n 1.70 perpendicular to fibre.
4.914 (58), 3.376 (65), 3.164 (100), 3.084 (61), 2.945 (72), 2.687 (53), 2.522 (84).

IMA No. 97-013
$Ca_8Mg(SiO_4)_4Cl_2$
Cubic: $Fd\bar{3}$
a 15.0850 Å
Orange brown to amber; vitreous; transparent.
Isotropic, n 1.676.
2.901 (40), 2.666 (100), 2.549 (30), 1.9637 (30), 1.8845 (30), 1.7774 (30), 1.5400 (50), 1.4585 (30).

IMA No. 97-014
Chemically and structurally related to sinhalite
$Mg_2Al_3B_2O_9(OH)$
Monoclinic: $P2_1/c$
a 7.49, b 4.33, c 9.85 Å, β 110.7°
Colourless; vitreous; transparent.
Biaxial (–), α 1.691, β 1.713, γ 1.730, 2V(meas.) 80.0°, 2V(calc.) 82°.
3.21 (40), 2.61 (40), 2.14 (100), 2.102 (60), 1.625 (100), 1.607 (40), 1.399 (40).

IMA No. 97-015
A Ca-dominant polymorph of zorite
$(Na,Ca)_5Ca(Ti,Nb)_5Si_{12}O_{34}(OH,F)_8 \cdot 5H_2O$
Orthorhombic: C222
a 7.024, b 23.155, c 6.953 Å
Pale brown, brown, orange-yellow; vitreous; transparent to translucent.
Biaxial (+), α 1.599, β 1.610, γ 1.696, 2V(meas.) 38°, 2V(calc.) 41°.

11.564 (100), 6.932 (90), 5.258 (40), 4.446 (40), 3.052 (75), 2.977 (70), 2.582 (40).

IMA No. 97-017
A monoclinic polymorph of cervantite
Sb_2O_4 ($Sb^{3+}Sb^{5+}O_4$, β-phase)
Monoclinic: C2/c
a 12.061, b 4.836, c 5.383 Å, β 104.60°
Colourless; vitreous; transparent.
Biaxial (sign unknown), α' 1.72, γ' 2.10.
3.244 (VS), 2.920 (M), 2.877 (S), 1.619 (M).

IMA No. 97-018
A member of the milarite group
$K(Ca,Mn,Na)_2(K_{2-x}\square_x)_2Zn_3Si_{12}O_{30}$
Hexagonal: P6/mcc
a 10.505, c 14.185 Å
Colourless, white; vitreous; transparent to translucent.
Uniaxial (+), ω 1.561, ε 1.562
7.11 (35), 3.830 (100), 3.345 (60), 3.304 (40), 2.940 (50), 2.795 (85), 2.627 (35).

IMA No. 97-019
The zinc-dominant member of the manasseite group
$Zn_4Al_2(OH)_{12}(CO_3) \cdot 3H_2O$
Hexagonal: $P6_3/mmc$
a 3.0725, c 15.1135 Å
White; vitreous; transparent.
Optical properties could not be measured.
7.51 (vs), 3.794 (m), 2.511 (mw), 2.175 (mw), 1.830 (mw), 1.542 (ms), 1.539 (ms).

IMA No. 97-021
$HgBi_2S_4$
Monoclinic: C2/m
a 14.164, b 4.053, c 13.967 Å, β 118.28°
Grey-black; metallic; opaque.
In reflected light: creamy-white, distinct anisotropism, low bireflectance, non-pleochroic. R_1 & R_2: (35.7, 37.8%) 470 nm, (35.4, 37.5%) 546 nm, (34.9, 37.0%) 589 nm, (33.9, 35.8%) 650 nm.
3.86 (m), 3.55 (m), 3.05 (S), 2.914 (mS), 2.865 (mS), 2.644 (m), 1.913 (m), 1.805 (m).

IMA No. 97-022
The cadmium-dominant analogue of 97-023
$(Cd,Ca,Mn)KCu_5(AsO_4)_4[As(OH)_2O_2](H_2O)_2$
Monoclinic: $P2_1/m$
a 9.8102, b 10.0424, c 9.9788 Å, β 101.686°
Electric blue; vitreous; transparent.
Biaxial (–), α 1.720, β 1.749, γ 1.757, 2V(meas.) 50°, 2V(calc.) 55°.
9.64 (100), 4.46 (40), 3.145 (50), 3.048 (40), 2.698 (40).

IMA No. 97-023
The calcium-dominant analogue of 97-022
$(Ca,Cd,Mn)KCu_5(AsO_4)_4[As(OH)_2O_2](H_2O)_2$
Monoclinic: $P2_1/m$
a 9.8102, b 10.0424, c 9.9788 Å, β 101.686°
Electric blue; vitreous; transparent.
Biaxial (–), α 1.713, β 1.743, γ 1.749, 2V(meas.) 50°, 2V(calc.) 48°.
9.64 (100), 4.46 (40), 3.145 (50), 3.048 (40), 2.698 (40).

IMA No. 97-024
The cadmium-dominant analogue of campigliaite
$Cu_4Cd(SO_4)_2(OH)_6 \cdot 4H_2O$
Monoclinic: $P2_1/m$
a 5.543, b 21.995, c 6.079 Å, β 92.04°
Bluish-green; vitreous; transparent.
Biaxial (–), α 1.619, β 1.642, γ 1.661, 2V(meas.) 66°, 2V(calc.) 83°.
11.02 (90), 5.496 (100), 5.322 (25), 4.079 (50), 3.437 (30), 3.243 (40), 2.470 (30).

IMA No. 97-025
$UO_2CO_3 \cdot H_2O$
Hexagonal: space group unknown
a 15.79, c 23.93 Å
Canary yellow; silky; translucent.
Uniaxial (+), ω 1.588, ε 1.612.
7.86 (47), 6.91 (55), 6.56 (77), 4.76 (40), 4.34 (36), 3.39 (33), 3.056 (100).

IMA No. 97-026
The boron-dominant analogue of vesuvianite
$Ca_{19}(Al,Mg,Fe,Ti)_{13}(B,Al,\square)_5Si_{18}O_{68}(O,OH,F)_{10}$
Tetragonal: P4/nnc
a 15.752, c 11.717 Å
Dark green; vitreous; translucent.
Uniaxial (+), ω 1.721, ε 1.725.
2.776 (100), 2.617 (61), 2.592 (43), 2.491 (61), 2.121 (20), 1.660 (26), 1.640 (23).

IMA No. 97-027
The cobalt-dominant analogue of lothar meyerite
$Ca(Co,Fe,Ni)_2(AsO_4)_2(OH,H_2O)_2$
Monoclinic: C2/m
a 9.024, b 6.230, c 7.421 Å, β 115.15°.
Brown; vitreous; translucent.
Biaxial (+), α 1.78, β 1.79, γ 1.85(calc.), 2V(meas.) 48°.
4.955 (38), 3.398 (85), 3.188 (28), 3.115 (33), 2.972 (100), 2.709 (28), 2.545 (34).

IMA No. 97-029
The rhodium- and sulfur-dominant analogue of palladseite
$Rh_{17}S_{15}$
Cubic: $Pm\bar{3}m$, $P\bar{4}3m$ or P432
a 10.024 Å
Colour unknown; metallic; opaque.
In reflected light: grey with slight bluish tint, isotropic. R: (38.6%) 480 nm, (39.0%) 540 nm, (39.1%) 580 nm, (38.8%) 660 nm.
3.33 (2), 3.17 (7), 3.02 (9), 2.68 (5), 2.24 (9), 1.931 (8), 1.774 (10).

IMA No. 97-030
$Rh_{12}As_7$
Hexagonal: $P6_3/m$
a 9.31, c 3.64 Å
Colour unknown; metallic; opaque.
In reflected light: brownish-grey, weak anisotropism from grey to brownish-grey, weak bireflectance, nonpleochroic. $R_{min.}$ & $R_{max.}$: (44.5, 47.8%) 480 nm, (44.7, 48.3%) 540 nm, (46.4, 49.2%) 580 nm, (48.6, 51.3%) 660 nm.
2.33 (4), 2.03 (2), 1.852 (9), 1.767 (6), 1.755 (10), 1.549 (8).

IMA No. 97-032
The Fe^{2+}-dominant analogue of wallkilldellite
$(Ca,Cu)_4Fe_6[(As,Si)O_4]_4(OH)_8 \cdot 18H_2O$
Hexagonal: $P6_3/mmc$, $P6_3mc$ or P62c
a 6.548, c 23.21 Å
Brown-yellow; vitreous to resinous; translucent.
Uniaxial (–), ω 1.750, ε could not be determined.
11.6 (100), 5.670 (80), 3.275 (70), 2.850 (10), 2.760 (15), 2.547 (10), 1.641 (25).

IMA No. 97-034
$ZnFe^{3+}_2(AsO_4)_2(OH)_2$
Monoclinic: $P2_1/n$
a 6.629, b 7.616, c 7.379 Å, β 91.79°
Dark green; adamantine; translucent.
Biaxial (sign unknown), n 1.94, mineral reacts with liquids of n > 1.9.
3.385 (100), 3.315 (78), 2.939 (47), 2.839 (28), 2.381 (29), 2.331 (29), 1.652 (32), 1.621 (34).

IMA No. 97-035
A member of the amphibole group
$(K,Na)Ca_2Fe^{2+}Fe^{3+}_2[Si_5Al_3O_{22}](OH)_2$
Monoclinic: C2/m
a 9.94, b 18.08, c 5.38 Å, β 105.5°
Black; vitreous; transparent.
Biaxial (–), α 1.696, β not determined, γ 1.715, 2V(meas.) 45°.
8.44 (90), 3.405 (25), 3.285 (30), 3.145 (100), 2.823 (26), 2.722 (52), 2.606 (27), 2.579 (25).

IMA No. 97-036
$Ca(Ce,REE)_2(CO_3)_4 \cdot H_2O$
Triclinic: $P\bar{1}$
a 6.397, b 6.389, c 12.383 Å,
α 96.58°, β 100.85°, γ 100.46°
Colourless to white; vitreous; translucent.
Biaxial (–), α 1.635, β 1.725, γ 1.750, 2V(calc.) 53°.
5.901 (59), 5.049 (72), 4.695 (37), 4.468 (36), 4.006 (110), 3.899 (45), 3.125 (39), 3.0051 (448).

IMA No. 97-037
$Na_2CaCu^{2+}_2(P_2O_7)_2(H_2O)_{10}$
Orthorhombic: Fdd2
a 11.938, b 32.854, c 11.017 Å
Blue-green; vitreous; transparent.
Biaxial (+), α 1.508, β 1.511, γ 1.517, 2V(meas.) 76.2°, 2V(calc.) 71°.
8.23 (30), 6.52 (100), 4.05 (40), 3.255 (40), 2.924 (40), 2.807 (25), 2.614 (20).

IMA No. 97-041
The zinc-dominant analogue of blödite
$Na_2Zn(SO_4)_2 \cdot 4H_2O$
Monoclinic: $P2_1/a$
a 11.077, b 8.249, c 5.532 Å, β 100.18°.
Colourless; vitreous; transparent.
Biaxial (–), α 1.507, β 1.512, γ 1.516 (all for synthetic material).
4.550 (58), 4.245 (32), 3.325 (25), 3.289 (100), 3.262 (35), 3.245 (25), 2.631 (27).

IMA No. 97-042
$Pb_9Sb_{10}S_{24}$
Triclinic: $P\bar{1}$
a 24.789, b 8.26, c 21.787 Å, α 90.53°, β 99.58°, γ 94.78°.
Black; metallic; opaque.
In reflected light: black, low anisotropism, low bireflectance, nonpleochroic. R_1 & R_2: (38.95, 37.64%) 470 nm, (42.35, 38.26%) 546 nm, (41.67, 37.63%) 589 nm, (37.43, 36.53%) 650 nm.
3.47 (vs), 3.35 (ms), 3.24 (ms), 2.986 (s), 2.947 (s), 2.229 (ms).

IMA No. 97-043
$PbSnS_3$
Orthorhombic: Pnma
a 8.8213, b 3.7725, c 14.0053 Å.
Greyish black; metallic; opaque.
In reflected light: white, weak anisotropism, weak bireflectance, nonpleochroic.

R_1 & R_2: (33.9, 36.0%) 470 nm, (31.3, 32.9%) 546 nm, (30.0, 31.4%) 589 nm, (28.8, 29.9%) 650 nm.
4.128 (100), 3.730 (30), 3.1085 (28), 2.8081 (51), 2.7421 (41), 2.6692 (51), 1.9335 (54).

IMA No. 97-044
A member of the ilmenite group
$(Mg,Fe)SiO_3$
Hexagonal (trigonal): $R\bar{3}$
a 4.78, c 13.6 Å.
Colourless; vitreous; transparent.
Uniaxial, no other data could be determined.
3.509 (61), 2.616 (100), 2.366 (52), 2.097 (45), 1.755 (45), 1.636 (65), 1.366 (50).

IMA No. 97-045
Na_2LiAlF_6
Monoclinic: $P2_1$ or $P2_1/m$
a 7.5006, b 7.474, c 7.503 Å, β 90.847°.
Pale buff-cream; somewhat greasy; transparent to translucent.
Almost isotropic (biref. = 0.0009), biaxial n 1.359, 2V(meas.) up to 27°.
4.33 (100), 2.65 (60), 2.25 (70), 2.18 (50), 2.158 (40), 1.877 (90).

IMA No. 97-047
$(Na,Y)(Y,REE)(HCO_3)(OH)_2 \cdot 5H_2O$
Monoclinic: P2 (pseudo-tetragonal)
a 4.566, b 13.018, c 4.566 Å, β 90.15°.
White to yellow; vitreous; translucent to transparent.
Uniaxial (–), ω 1.540, ε 1.40, 2V(meas.) 0–5°.
12.97 (10), 6.52 (3), 4.57 (3), 4.32 (5), 3.223(3), 3.133 (5), 2.016 (4).

IMA No. 97-048
The magnesium-dominant analogue of palenzonaite
$NaCa_2Mg_2(VO_4)_3$
Cubic: $Ia\bar{3}d$
a 12.427 Å
Red; adamantine; transparent.
Isotropic, n 1.94.
3.108 (44), 2.779 (100), 2.652 (20), 2.535 (39), 1.723 (26), 1.662 (40).

IMA No. 97-049
$KFe_3^{3+}(H_2PO_4)_6(HPO_4)_2 \cdot 4H_2O$
Monoclinic: C2/c
a 16.95, b 9.59, c 17.57 Å, β 90.85°.
White; vitreous; translucent.
Biaxial (–), α 1.557, β 1.598, γ 1.602, 2V(meas.) 32°, 2V(calc.) 34°.
8.83 (10), 7.60 (4), 3.75 (10), 3.30 (4), 3.23 (5), 3.11 (4), 3.02 (9).

IMA No. 97-050
$BaMn_9[(V,As)O_4]_6(OH)_2$
Cubic: $Pa\bar{3}$
a 12.845 Å
Dark red; adamantine; transparent.
Isotropic, n > 2.0.
3.01 (87), 2.790 (100), 2.608 (100), 2.332 (44), 2.134 (53), 1.510 (99), 1.0020 (35).

IMA No. 97-051
$TlAg_2(As,Sb)_3S_6$
Orthorhombic: Pnmb or $P2_1nb$
a 12.479, b 15.522, c 5.719 Å.
Dark grey; metallic; opaque.
In reflected light: pure white, extremely weak anisotropism, no bireflectance, non-pleochroic. $R_{min.}$ & $R_{max.}$: (31.43, 33.43%) 470 nm, (28.31, 30.52%) 546 nm, (27.10, 29.11%) 589 nm, (25.57, 27.44%) 650 nm.
3.655 (16), 3.363 (50), 3.290 (23), 3.210 (26), 3.118 (27), 2.822 (100), 2.540 (17), 2.070 (15).

Proposals from previous years approved in 1997

IMA No. 93-029
$Na_4SrCeTiSi_8O_{22}F \cdot 5H_2O$
Monoclinic: P2/a (?)
a 23.88, b 14.40, c 7.238 Å, β 91.0°.
Yellow. pink-yellow or cream; vitreous and silky; translucent.
Biaxial (–), α 1.542, β 1.569, γ 1.571, 2V(meas.) 28°, 2V(calc.) 30°.
12.36 (100), 3.232 (13), 3.190 (29), 3.108 (29), 3.087 (21), 3.058 (13), 2.708 (12).

IMA No. 96-016
$Mg_4Cl(OH)_7 \cdot 6H_2O$
Orthorhombic: Pcmm, $Pcm2_1$, or Pc2m
a 11.215, b 3.124, c 19.21 Å.
Yellowish-white; vitreous or pearly; translucent.
Biaxial (–), α 1.532, β ~ γ 1.562, 2V(meas.) ≤ 5°.
11.41 (29), 9.78 (46), 9.60 (38), 4.25 (20), 3.498 (100).

IMA No. 96-018
A member of the tourmaline group
$\square(LiAl_2)Al_6(BO_3)_3(Si_6O_{18})(OH)_4$
Hexagonal (trigonal): R3m
a 15.770, c 7.085 Å.
Pink; vitreous; translucent.
Uniaxial (–), ω 1.645, ε 1.624.
4.181 (58), 3.950 (100), 3.434 (52), 2.924 (56), 2.552 (93), 1.898 (72).

IMA No. 96-061
An hexagonal or trigonal dimorph of scorodite
$Fe^{3+}AsO_4 \cdot 2H_2O$
Hexagonal: P-c- (extinction symbol)
a 8.9327, c 9.9391 Å.
White to light yellow-brown; vitreous; translucent.
Uniaxial (sign unknown), ω and $\varepsilon > 1.72$.
4.973 (61), 4.184 (44), 4.076 (100), 3.053 (67), 2.806 (68), 2.661 (59), 2.520 (54), 2.2891 (44).