

**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
 $(\text{Bi},\text{Pb})_2\text{Fe}(\text{O},\text{OH})_3\text{PO}_4$

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)

$\text{Ca}_2\text{B}_2\text{SiO}_7$
Tetragonal: P4₂1m
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

$\text{NaK}_2(\text{Ti},\text{Nb})_2\text{Si}_4\text{O}_{12}(\text{O},\text{OH})_2 \cdot 2\text{H}_2\text{O}$
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
 $(\text{UO}_2)\text{H}(\text{AsO}_3)$
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 Mn²⁺-dominant analogue of nordite-(Ce)
 $\text{Na}_3\text{SrCeMnSi}_6\text{O}_{17}$
 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 Fe²⁺-dominant analogue of nordite-(Ce)
 $\text{Na}_3\text{SrCeFeSi}_6\text{O}_{17}$
 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
 $\text{CaCu}_6[(\text{AsO}_4)_2(\text{AsO}_3\text{OH})(\text{OH})_6]\cdot 3\text{H}_2\text{O}$
 Hexagonal: P6₃/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
 $\text{Pb}_4\text{As}_2\text{S}_7$
 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
 $\text{Ca}(\text{Al,Fe}^{2+},\text{Mg,Mn})_2(\text{AsO}_4)_2(\text{OH})_2$
 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
 $\text{Ca}_8\text{Mg}(\text{SiO}_4)_4\text{Cl}_2$
- 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
 $\text{Mg}_2\text{Al}_3\text{B}_2\text{O}_9(\text{OH})$
 Monoclinic: P2₁/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
 $(\text{Na,Ca})_5\text{Ca}(\text{Ti,Nb})_5\text{Si}_{12}\text{O}_{34}(\text{OH,F})_8 \cdot 5\text{H}_2\text{O}$
 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 ($\text{Sb}^{3+}\text{Sb}^{5+}\text{O}_4$, 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
 $\text{K}(\text{Ca,Mn,Na}_2)(\text{K}_{2-x}\square_x)_2\text{Zn}_3\text{Si}_{12}\text{O}_{30}$
 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
 $\text{Zn}_4\text{Al}_2(\text{OH})_{12}(\text{CO}_3)\cdot 3\text{H}_2\text{O}$
 Hexagonal: P6₃/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

NEW 1997 MINERALS

- 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, nonpleochroic. 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)KCu₅(AsO₄)₄[As(OH)₂O₂](H₂O)₂
Monoclinic: P₂₁/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)KCu₅(AsO₄)₄[As(OH)₂O₂](H₂O)₂
Monoclinic: P₂₁/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
Cu₄Cd(SO₄)₂(OH)₆·4H₂O
Monoclinic: P₂₁/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
UO₂ CO₃ · H₂O
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
Ca₁₉(Al,Mg,Fe,Ti)₁₃(B,Al,□)₅Si₁₈O₆₈(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 lotharmeyerite
Ca(Co,Fe,Ni)₂(AsO₄)₂(OH,H₂O)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
Rh₁₇S₁₅
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
Rh₁₂As₇
Hexagonal: P6₃/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 Fe²⁺-dominant analogue of wallkillellite
(Ca,Cu)₄Fe₆[(As,Si)O₄]₄(OH)₈·18H₂O
Hexagonal: P6₃/mmc, P6₃mc 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
ZnFe₂³⁺(AsO₄)₂(OH)₂
Monoclinic: P2₁/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
 $(\text{K}, \text{Na})\text{Ca}_2\text{Fe}^{2+}\text{Fe}_2^{3+}[\text{Si}_5\text{Al}_3\text{O}_{22}](\text{OH})_2$
 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
 $\text{Ca}(\text{Ce}, \text{REE})_2(\text{CO}_3)_4\text{H}_2\text{O}$

Triclinic: P
 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

$\text{Na}_2\text{CaCu}_2^{2+}(\text{P}_2\text{O}_7)_2(\text{H}_2\text{O})_{10}$
 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

$\text{Na}_2\text{Zn}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$
 Monoclinic: P2₁/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

$\text{Pb}_9\text{Sb}_{10}\text{S}_{24}$
 Triclinic: Pī
 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. R₁ & R₂: (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.
 R₁ & R₂: (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
 $(\text{Mg}, \text{Fe})\text{SiO}_3$

Hexagonal (trigonal): R3
 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

$\text{Na}_2\text{LiAlF}_6$
 Monoclinic: P2₁ or P2₁/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

$(\text{Na}, \text{Y})(\text{Y}, \text{REE})(\text{HCO}_3)(\text{OH})_2 \cdot 5\text{H}_2\text{O}$
 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

$\text{NaCa}_2\text{Mg}_2(\text{VO}_4)_3$
 Cubic: Ia3d
 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

$\text{KFe}_3^{3+}(\text{H}_2\text{PO}_4)_6(\text{HPO}_4)_2 \cdot 4\text{H}_2\text{O}$
 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).

NEW 1997 MINERALS

IMA No. 97-050 BaMn ₂ [V ₂ AsO ₄] ₆ (OH) ₂ Cubic: Pa 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).	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. 97-051 TlAg ₂ (As,Sb) ₃ S ₆ Orthorhombic: Pnmb or P2 ₁ nb a 12.479, b 15.522, c 5.719 Å. Dark grey; metallic; opaque. In reflected light: pure white, extremely weak anisotropism, no bireflectance, nonpleochroic. 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).	IMA No. 96-016 Mg ₄ Cl(OH) ₇ ·6H ₂ O Orthorhombic: Pcm _m , Pcm ₂ ₁ , or Pcm ₂ m 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.) \leqslant 5°. 11.41 (29), 9.78 (46), 9.60 (38), 4.25 (20), 3.498 (100).
IMA No. 97-052 □(LiAl ₂)Al ₆ (BO ₃) ₃ (Si ₆ O 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. 96-018 A member of the tourmaline group □(LiAl ₂)Al ₆ (BO ₃) ₃ (Si ₆ O 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. 93-029 Na ₄ SrCeTiSi ₈ O ₂₂ F·5H ₂ O 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.	IMA No. 96-061 An hexagonal or trigonal dimorph of scorodite Fe ³⁺ AsO ₄ ·2H ₂ O Hexagonal: P-c- (extinction symbol) a 8.9327, c 9.9391 Å. White to light yellow-brown; vitreous; translucent. Uniaxial (sign unknown), ω and ϵ > 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).

Proposals from previous years approved in 1997

IMA No. 93-029 Na ₄ SrCeTiSi ₈ O ₂₂ F·5H ₂ O 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.
