

CNMNC Newsletter

IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) – Newsletter 91

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The information given here is provided by the IMA Commission on New Minerals, Nomenclature and Classification for comparative purposes and as a service to mineralogists working on new species.

Each mineral is described in the following format:

Mineral name, if the authors agree on its release prior to the full description appearing in press

Chemical formula (ideal formula)

Mineral symbol

Type locality

Full authorship of proposal

E-mail address of corresponding author

Relationship to other minerals

Crystal system, Space group; Structure determined, yes or no

Unit-cell parameters

Strongest lines in the powder X-ray diffraction pattern

Type specimen repository and specimen number

Citation details for the mineral prior to publication of full description

Citation details concern the fact that this information will be published in the *Mineralogical Magazine* on a routine basis, as well as being added month by month to the commission's website.

It is still a requirement for the authors to publish a full description of the new mineral.

NO OTHER INFORMATION WILL BE RELEASED BY THE COMMISSION

New mineral proposals approved in April 2026

IMA No. 2025-031b

Piilonenite-(Nd)

$\text{NaNd}(\text{CO}_3)_2(\text{H}_2\text{O})_3$

Pii-Nd

Poudrette (Demix) quarry, Mont Saint-Hilaire, Quebec, Canada
(45°33'46" N, 73°08'30" W)

Inna Lykova*, Ralph Rowe, Simon Teat, Glenn Poirier and
Stephanie Barnes

*E-mail: ilykova@nature.ca

New structure type

Orthorhombic: $P2_12_12_1$; structure determined

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*Chairman (CNMNC)

**Vice-chairman (CNMNC)

***Secretary (CNMNC)

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$a = 6.791(1)$, $b = 17.135(3)$, $c = 6.436(1)$ Å
8.59(100), 4.690(14), 4.529(7), 4.291(30), 4.123(7), 3.417(10),
3.175(17), 2.859(8)

Type material is deposited in the collections of the Canadian
Museum of Nature, 240 McLeod Street, Ottawa, ON K2P 2R1,
Canada, catalogue number CMNMC 93393

How to cite: Lykova, I., Rowe, R., Teat, S., Poirier, G. and
Barnes, S. (2026) Piilonenite-(Nd), IMA 2025-031b. CNMNC
Newsletter 91, *Mineralogical Magazine*, **90**, <https://doi.org/10.1180/mgm.2026.10236>

IMA No. 2025-101

Kristekite

$\text{Cu}_2(\text{H}_2\text{O})_4(\text{UO}_2)(\text{SeO}_3)_3 \cdot 4\text{H}_2\text{O}$

Kik

In the mine dump of the Shaft No. 11A, near Bytíz, Příbram
ore district, Central Bohemia, Czech Republic (49°41'18.89" N,
14°04'13.15" E)

Jakub Plášil*, Pavel Škácha, Jiří Sejkora, Radek Škoda and
Radana Vrtišková

*E-mail: plasil@fzu.cz

Chemically related to marthozite

Monoclinic: $P2_1/m$; structure determined

$a = 6.3664(2)$, $b = 15.8932(4)$, $c = 8.1248(3)$ Å, $\beta = 91.437(2)^\circ$
8.197(53), 7.293(100), 5.718(7), 4.100(40), 3.647(7), 3.247(7),
3.129(5), 2.974(9)

Type material is deposited in the collections of the Department of Mineralogy and Petrology, National Museum, Cirkusová 1740, 19300 Praha 9, Czech Republic, catalogue number P1P 46/2025

How to cite: Plášil, J., Škácha, P., Sejkora, J., Škoda, R. and Vrtišková, R. (2026) Kristekite, IMA 2025-101. CNMNC Newsletter 91, *Mineralogical Magazine*, **90**, <https://doi.org/10.1180/mgm.2026.10236>

IMA No. 2025-102

Magnesiocchangesite-(Ce)

$(\text{Ca}_8\text{Ce})\square\text{Mg}(\text{PO}_4)_7$

Mcgs-Ce

Lunar meteorite Pakepake005, discovered in the Taklamakan desert, Xinjiang, China (38°50'22" N, 83°42'18" E)

Yanjuan Wang*, Zengqian Hou, Xiaochao Che, Arianna E. Lanza, Fernando Cámara, Zhenyu Chen, Cheng Yue, Ze Liu, Qingqing Yin, Tao Long, Maxwell C. Day, Francesca Innocenzi, Lisa Santello, Anna Barbaro, Simone Molinari, Ziyao Wang, Junping Ren, Ran Zhang, Kai Qu and Fabrizio Nestola*

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Cerite supergroup

Trigonal: $R3c$; structure determined

$a = 10.3813(4)$, $c = 37.278(1)$ Å
3.430(16), 3.190(16), 2.865(100), 2.591(39), 2.089(29),
1.878(12), 1.810(13), 1.715(20)

Type material is deposited in the collections of the Geological Museum of China, No. 16, Yangrou Hutong, Xisi, Beijing 100031, People's Republic of China, catalogue number GMCTM2025021

How to cite: Wang, Y., Hou, Z., Che, X., Lanza, A.E., Cámara, F., Chen, Z., Yue, C., Liu, Z., Yin, Q., Long, T., Day, M.C., Innocenzi, F., Santello, L., Barbaro, A., Molinari, S., Wang, Z., Ren, J., Zhang, R., Qu, K. and Nestola, F. (2026) Magnesiocchangesite-(Ce), IMA 2025-102. CNMNC Newsletter 91, *Mineralogical Magazine*, **90**, <https://doi.org/10.1180/mgm.2026.10236>

New mineral proposals approved in May 2026

IMA No. 2025-072

Bernwoodite

$\text{Ca}_5\text{TiAl}_2\text{Si}_2\text{O}_{14}$

Bew

As inclusion in a diamond from the Rio Sorriso placer, Juina area, Mato Grosso, Brazil (11°19'59" S, 59°10'59" W)

Nester Korolev*, Ekaterina S. Kiseeva, Alena Aslandukova, George E. Harlow, Chi Ma, Yaakov Weiss, Alexander Kurnosov, Felix V. Kaminsky and Leonid Dubrovinsky

*E-mail: nkorolev@amnh.org

Perovskite supergroup

Monoclinic: $C2/c$; structure determined

$a = 9.190(1)$, $b = 5.2594(4)$, $c = 21.846(4)$ Å, $\beta = 97.84(2)^\circ$
2.647(100), 2.643(67), 2.189(17), 2.152(46), 1.522(56),
1.521(30), 1.183(18), 1.178(24)

Type material is deposited in the collections of the American Museum of Natural History, 200 Central Park West, New York, NY 10024-5102, USA, catalogue no. AMNH#115649

How to cite: Korolev, N., Kiseeva, E.S., Aslandukova, A., Harlow, G.E., Ma, C., Weiss, Y., Kurnosov, A., Kaminsky, F.V. and Dubrovinsky, L. (2026) Bernwoodite, IMA 2025-072. CNMNC Newsletter 91, *Mineralogical Magazine*, **90**, <https://doi.org/10.1180/mgm.2026.10236>

IMA No. 2025-093

Georgeliuite

$\text{Ca}_2\text{Mn}^{3+}_3\text{O}_2(\text{AsO}_4)_3(\text{H}_2\text{O})_2 \cdot \text{H}_2\text{O}$

Geg

Jote mine, Pampa Larga district, Tierra Amarilla, Copiapó Province, Atacama Region, Chile (27°36'30" S, 70°09'23" W)

Xiangping Gu, Hexiong Yang*, Linfei Qiu, Guang Fan, Robert A. Jenkins, Ronald B. Gibbs and Robert T. Downs

*E-mail: hyang@arizona.edu

The Mn^{3+} analogue of arseniosiderite

Monoclinic: Cm ; structure determined

$a = 11.3112(9)$, $b = 20.163(1)$, $c = 8.9858(7)$ Å, $\beta = 100.539(7)^\circ$
8.803(10), 5.734(19), 3.345(23), 3.241(26), 2.930(21), 2.803(61),
2.656(22), 2.520(20)

Type material is deposited in the collections of the University of Arizona Alfie Norville Gem & Mineral Museum, 115 N Church Ave Ste 121, Tucson, AZ 85701, USA, catalogue number 22747 (holotype), and the RRUFF Project, deposition number R250055 (cotype)

How to cite: Gu, X., Yang, H., Qiu, L., Fan, G., Jenkins, R.A., Gibbs, R.B. and Downs, R.T. (2026) Georgeliuite, IMA 2025-093. CNMNC Newsletter 91, *Mineralogical Magazine*, **90**, <https://doi.org/10.1180/mgm.2026.10236>

IMA No. 2025-095a

Sombrereteite

$\text{NaCa}_3(\text{Al}_7\text{Si}_9)\text{O}_{32}$

Som

Sombrerete iron meteorite, found in 1958 at Cerro del Sombrerillo, Zacatecas, Mexico (23°38' N, 103°40' W)

Xiangping Gu, Zuokai Ke, Hexiong Yang*, Kai Qu, Guanghua Liu, Yixuan Liu, Yizhou Chen, Ran Gao, Qun Ai, Shuting Huang, Baihui Ma and Yang Liu

*E-mail: hyang@arizona.edu

Chemically, the sodium analogue of wodegongjieite

Monoclinic: $C2/c$; structure determined

$a = 10.2358(1)$, $b = 17.8056(3)$, $c = 14.9349(3)$ Å, $\beta = 90.420(1)^\circ$
4.429(73), 3.816(99), 3.743(100), 3.351(36), 3.272(48),
2.854(68), 2.561(71), 1.866(21)

Type material is deposited in the collections of the Geological Museum of China, No. 16, Yangrou Hutong, Xisi, Beijing 100031, People's Republic of China, catalogue number GMCTM2025019

How to cite: Gu, X., Ke, Z., Yang, H., Qu, K., Liu, G., Liu, Y., Chen, Y., Gao, R., Ai, Q., Huang, S., Ma, B. and Liu, Y. (2026) Sombrereteite, IMA 2025-095a. CNMNC Newsletter 91, *Mineralogical Magazine*, **90**, <https://doi.org/10.1180/mgm.2026.10236>

IMA No. 2026-002

Leishmanite

$\text{Ba}(\text{H}_2\text{O})_4[(\text{UO}_2)_3\text{O}_2(\text{OH})_3]_2 \cdot 3\text{H}_2\text{O}$

Lhm

On the northern slope of the Grand Alou valley, south of the Dent de Nendaz (2463 m), Nendaz, Valais, Switzerland (46°08'40" N, 7°17'37" E)

Jakub Plášil*, Radek Škoda, Stefan Ansermet and Nicolas Meisser

*E-mail: plasil@fzu.cz

Closely related to billietite

Orthorhombic: $Pmn2_1$; structure determined

$a = 12.079(2)$, $b = 15.096(3)$, $c = 7.155(2)$ Å

$7.46(100)$, $6.09(10)$, $3.789(30)$, $3.601(20)$, $3.519(40)$, $3.249(45)$, $3.186(60)$, $2.044(15)$

Type material is deposited in the collections of the Department of Geology, State Museum of Natural Sciences (Naturéum), Anthropole, Dorigny, CH-1015 Lausanne, Switzerland, catalogue number MGL101918

How to cite: Plášil, J., Škoda, R., Ansermet, S. and Meisser, N. (2026) Leishmanite, IMA 2026-002. CNMNC Newsletter 91, *Mineralogical Magazine*, **90**, <https://doi.org/10.1180/mgm.2026.10236>

Nomenclature/classification proposals approved in March 2026

IMA 25-B: Stilpnomelane group: composition range, franklinphillite and ekmanite discredited

(Richard A. Eggleton, Penelope L. King, Frank Brink, Peter Self and Aaron Dodd)

Proposal 25-B on the nomenclature of the stilpnomelane group is accepted. The general formula of minerals belonging to this group is $A_4M_{48}[\text{Si}_{64}\text{Al}_8](\text{O}(\text{OH}))_{216} \cdot n\text{H}_2\text{O}$, where $A = \text{K}, \text{Na}, \text{Ca}, \text{Ba}$ and $M = \text{Fe}^{2+}, \text{Mn}, \text{Mg}, \text{Al}, \text{Fe}^{3+}, \text{Zn}$. The end-member formula of stilpnomelane is $\text{K}_4\text{Fe}^{2+}_{48}[\text{Si}_{64}\text{Al}_8]\text{O}_{164}(\text{OH})_{52} \cdot n\text{H}_2\text{O}$, and lennilenapeite is redefined as a Mn analogue with the end-member formula $\text{K}_4\text{Mn}^{2+}_{48}[\text{Si}_{64}\text{Al}_8]\text{O}_{164}(\text{OH})_{52} \cdot n\text{H}_2\text{O}$. Ekmanite is a stilpnomelane with minor Mn, and franklinphillite is a mixture of lennilenapeite and nelenite; both minerals are consequently discredited.

IMA 26-A: Definition of a gadolinite-(Y) neotype

(Dan Holtstam, Alice Taddei, Hans-Jürgen Förster and Oona Appelt)

Proposal 26-A is accepted, and the neotype material for gadolinite-(Y) is redefined from the Ytterby locality, Sweden. The sample is stored in the collections of the Swedish Museum of Natural History, Box 50007, SE-10405 Stockholm, Sweden, catalogue no. GEO-NRM LK6893.

Other issues

Polish-up of the IMA List of Minerals (second round)

After a similar action made some years ago (see CNMNC Newsletter 50), the IMA-CNMNC is making effective a number of minor changes in the ideal chemical formulae of mineral species. In most cases the change merely consists in the elimination of subordinate constituents occurring within the same parentheses together with the dominant constituent. Minerals marked as Q (questionable) in the IMA List of Minerals were not considered, since these should deserve a more detailed re-appraisal. Similarly, minerals belonging to a supergroup for which the IMA-CNMNC approved a comprehensive report were left behind, too, as those

formulae have been already discussed and agreed by a dedicated subcommittee. This is an executive decision taken by the IMA-CNMNC.

Aldridgeite

Current formula: $\text{Cd}(\text{Cu}, \text{Zn})_4(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_3$

New formula: $\text{CdCu}_4(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_3$

[Cf. devilline: $\text{CaCu}_4(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_3$]

Aluminocopiapite

Current formula: $(\text{Al}, \text{Mg})\text{Fe}^{3+}_4(\text{SO}_4)_6(\text{OH}, \text{O})_2(\text{H}_2\text{O})_{14} \cdot 6\text{H}_2\text{O}$

New formula: $\text{AlFe}^{3+}_4(\text{SO}_4)_6\text{O}(\text{OH})(\text{H}_2\text{O})_{14} \cdot 6\text{H}_2\text{O}$

[Cf. magnesiocopiapite: $\text{MgFe}^{3+}_4(\text{SO}_4)_6(\text{OH})_2(\text{H}_2\text{O})_{14} \cdot 6\text{H}_2\text{O}$]

Alumovesuvianite

Current formula: $\text{Ca}_{19}\text{Al}(\text{Al}_{10}\text{Mg}_2)\text{Si}_{18}\text{O}_{69}(\text{OH})_9$

New formula: $\text{Ca}_{19}\text{Al}(\text{Al}_{10}\text{Mg}_2)(\text{SiO}_4)_{10}(\text{Si}_2\text{O}_7)_4\text{O}(\text{OH})_9$

[Cf. manganvesuvianite: $\text{Ca}_{19}\text{Mn}^{3+}(\text{Al}_{10}\text{Mg}_2)(\text{SiO}_4)_{10}(\text{Si}_2\text{O}_7)_4\text{O}(\text{OH})_9$]

Ankerite

Current formula: $\text{Ca}(\text{Fe}^{2+}, \text{Mg})(\text{CO}_3)_2$

New formula: $\text{CaFe}^{2+}(\text{CO}_3)_2$

[Cf. dolomite: $\text{CaMg}(\text{CO}_3)_2$]

Arsenbrackebuschite

Current formula: $\text{Pb}_2(\text{Fe}^{3+}, \text{Zn})(\text{AsO}_4)_2(\text{OH}, \text{H}_2\text{O})$

New formula: $\text{Pb}_2\text{Fe}^{3+}(\text{AsO}_4)_2(\text{OH})$

[Cf. feinglosite: $\text{Pb}_2\text{Zn}(\text{AsO}_4)_2 \cdot \text{H}_2\text{O}$]

Azoproite

Current formula: $\text{Mg}_2[(\text{Ti}, \text{Mg}), \text{Fe}^{3+}]\text{O}_2(\text{BO}_3)$

New formula: $\text{Mg}_2(\text{Ti}_{0.5}\text{Mg}_{0.5})\text{O}_2(\text{BO}_3)$

[Cf. ludwigite: $\text{Mg}_2\text{Fe}^{3+}\text{O}_2(\text{BO}_3)$]

Bannisterite

Current formula: $(\text{Ca}, \text{K}, \text{Na})(\text{Mn}^{2+}, \text{Fe}^{2+})_{10}(\text{Si}, \text{Al})_{16}\text{O}_{38}(\text{OH})_8 \cdot n\text{H}_2\text{O}$

New formula: $\text{CaMn}^{2+}_{10}[(\text{Si}_{14}\text{Al}_2)\text{O}_{38}(\text{OH})_8] \cdot n\text{H}_2\text{O}$

[Cf. kayupovaite: $\text{Na}_2\text{Mn}^{2+}_{10}[(\text{Si}_{14}\text{Al}_2)\text{O}_{38}(\text{OH})_8] \cdot 7\text{H}_2\text{O}$]

Barićite

Current formula: $(\text{Mg}, \text{Fe})_3(\text{PO}_4)_2(\text{H}_2\text{O})_8$

New formula: $\text{Mg}_3(\text{PO}_4)_2(\text{H}_2\text{O})_8$

[Cf. vivianite: $\text{Fe}^{2+}_3(\text{PO}_4)_2(\text{H}_2\text{O})_8$]

Barquillite

Current formula: $\text{Cu}_2(\text{Cd}, \text{Fe})\text{GeS}_4$

New formula: $\text{Cu}_2\text{CdGeS}_4$

[Cf. briartite: $\text{Cu}_2\text{FeGeS}_4$]

Borisenkoite

Current formula: $\text{Cu}_3[(\text{V}, \text{As})\text{O}_4]_2$

New formula: $\text{Cu}_3(\text{VO}_4)_2$

[Cf. kayupovaite: $\text{Cu}_3(\text{AsO}_4)_2$]

Bouazzerite

Current formula: $\text{Bi}_6(\text{Mg}, \text{Co})_{11}\text{Fe}_{14}(\text{AsO}_4)_{18}\text{O}_{12}(\text{OH})_4(\text{H}_2\text{O})_{86}$

New formula: $\text{Bi}_6\text{Mg}_{11}\text{Fe}_{14}(\text{AsO}_4)_{18}\text{O}_{12}(\text{OH})_4(\text{H}_2\text{O})_{86}$

Byrudite

Current formula: $(\text{Be}, \square)(\text{V}^{3+}, \text{Ti})_3\text{O}_6$

New formula: $\text{BeV}^{3+}_2\text{TiO}_6$

[Cf. verbierite: $\text{BeCr}^{3+}_2\text{TiO}_6$]

Carbocernaite*Current formula:* (Sr,Ce,La)(Ca,Na)(CO₃)₂*New formula:* SrCa(CO₃)₂**Chlorophoenicite***Current formula:* (Mn,Mg,Zn)₃Zn₂(AsO₄)(OH,O)₆*New formula:* Mn₃Zn₂(OH)₆As[O₃(OH)₃][Cf. peterchinite: Zn₃Zn₂(OH)₆As[O₃(OH)₃]]**Cyprine***Current formula:* Ca₁₉Cu²⁺(Al,Mg)₁₂Si₁₈O₆₉(OH)₉*New formula:* Ca₁₉Cu²⁺(Al₁₁Mg)(SiO₄)₁₀(Si₂O₇)₄O(OH)₉[Cf. magnesiovesuvianite: Ca₁₉Mg(Al₁₁Mg)(SiO₄)₁₀(Si₂O₇)₄O(OH)₉]**Eckhardite***Current formula:* (Ca,Pb)Cu²⁺Te⁶⁺O₅(H₂O)*New formula:* CaCu²⁺Te⁶⁺O₅(H₂O)**Fluorvesuvianite***Current formula:* Ca₁₉(Al,Mg)₁₃(SiO₄)₁₀(Si₂O₇)₄O(F,OH)₉*New formula:* Ca₁₉Al(Al₁₀Mg₂)(SiO₄)₁₀(Si₂O₇)₄OF₉[Cf. alumovesuvianite: Ca₁₉Al(Al₁₀Mg₂)(SiO₄)₁₀(Si₂O₇)₄O(OH)₉]**Fontarnauite***Current formula:* (Na,K)₂(Sr,Ca)(SO₄)[B₅O₈(OH)](H₂O)₂*New formula:* Na₂Sr(SO₄)[B₅O₈(OH)](H₂O)₂**Fritzscheite***Current formula:* Mn²⁺(UO₂)₂(VO₄,PO₄)₂·4H₂O*New formula:* Mn²⁺(UO₂)₂(VO₄)₂·4H₂O[Cf. lehnerite: Mn²⁺(UO₂)₂(PO₄)₂·8H₂O]**Gainesite***Current formula:* Na₂(Be,Li)Zr₂(PO₄)₄·1.5H₂O*New formula:* Na₂BeZr₂(PO₄)₄·1.5H₂O**Hloušekite***Current formula:* (Ni,Co)Cu₄(AsO₄)₂(AsO₃OH)₂(H₂O)₇·H₂O*New formula:* NiCu₄(AsO₄)₂(AsO₃OH)₂(H₂O)₈·H₂O**Hydrombobomkulite***Current formula:* (Ni,Cu)Al₄(NO₃,SO₄)₂(OH)₁₂(H₂O)₁₄*New formula:* NiAl₄(NO₃)₂(OH)₁₂(H₂O)₁₄**Johnwalkite***Current formula:* K(Mn²⁺,Fe³⁺)₂(Nb,Ta)O₂(PO₄)₂·2(H₂O,OH)*New formula:* KMn²⁺₂NbO₂(PO₄)₂(H₂O)₂[Cf. olmsteadite: KFe²⁺₂NbO₂(PO₄)₂(H₂O)₂]**Laitakarite***Current formula:* Bi₄(Se,S)₃*New formula:* Bi₄Se₃[Cf. ikunolite: Bi₄S₃]**Lasnierite***Current formula:* (Ca,Sr)(Mg,Fe²⁺)₂Al(PO₄)₃*New formula:* CaMg₂Al(PO₄)₃**Lucabindiite***Current formula:* (K,NH₄)As₄O₆(Cl,Br)*New formula:* K(As₂O₃)₂Cl**Lusernaite-(Y)***Current formula:* Y₄Al(CO₃)₂(OH,F)₁₁(H₂O)₄·2H₂O*New formula:* Y₄Al(CO₃)₂(OH)₁₁(H₂O)₄·2H₂O**Magnesiochlorophoenicite***Current formula:* Mg₃Zn₂(AsO₄)(OH,O)₆*New formula:* Mg₃Zn₂(OH)₆As[O₃(OH)₃][Cf. peterchinite: Zn₃Zn₂(OH)₆As[O₃(OH)₃]]**Magnesioheptunite***Current formula:* KNa₂Li(Mg,Fe)₂Ti₂Si₈O₂₄*New formula:* KNa₂LiMg₂Ti₂Si₈O₂₄[Cf. neptunite: KNa₂LiFe²⁺₂Ti₂Si₈O₂₄]**Magnesiorowlandite-(Y)***Current formula:* Y₄(Mg,Fe)(Si₂O₇)₂F₂*New formula:* Y₄Mg(Si₂O₇)₂F₂[Cf. rowlandite-(Y): Y₄Fe²⁺(Si₂O₇)₂F₂]**Mbobomkulite***Current formula:* (Ni,Cu)Al₄(NO₃,SO₄)₂(OH)₁₂(H₂O)₃*New formula:* NiAl₄(NO₃)₂(OH)₁₂(H₂O)₃**Mccrillisite***Current formula:* NaCs(Be,Li)Zr₂(PO₄)₄·1-2H₂O*New formula:* NaCsBeZr₂(PO₄)₄·1-2H₂O**Montroseite***Current formula:* (V³⁺,Fe²⁺,V⁴⁺)O(OH)*New formula:* V³⁺O(OH)**Murunskite***Current formula:* K₂(Cu,Fe)₄S₄*New formula:* K₂(Cu⁺₃Fe³⁺)₄S₄[Cf. thalcusite: Tl₂(Cu⁺₃Fe³⁺)₄S₄]**Nordgauite***Current formula:* MnAl₂(PO₄)₂(F,OH)₂(H₂O)₄·H₂O*New formula:* MnAl₂(PO₄)₂F₂(H₂O)₄·H₂O[Cf. kayrobertsonite: MnAl₂(PO₄)₂(OH)₂(H₂O)₄·2H₂O]**Ohmilite***Current formula:* Sr₃(Ti,Fe³⁺)(Si₂O₆)₂(O,OH)(H₂O)₂*New formula:* Sr₃Ti(Si₂O₆)₂O(H₂O)₂[Cf. yuzuxiangite: Sr₃Fe³⁺(Si₂O₆)₂(OH)(H₂O)₃]**Paraniite-(Y)***Current formula:* (Ca,Y,Dy)₂Y(WO₄)₂(AsO₄)*New formula:* Ca₂Y(WO₄)₂(AsO₄)**Paratacamite***Current formula:* Cu₃(Cu,Zn)(OH)₆Cl₂*New formula:* Cu₃Cu(OH)₆Cl₂**Paratacamite-(Mg)***Current formula:* Cu₃(Mg,Cu)(OH)₆Cl₂*New formula:* Cu₃Mg(OH)₆Cl₂**Paratacamite-(Ni)***Current formula:* Cu₃(Ni,Cu)(OH)₆Cl₂*New formula:* Cu₃Ni(OH)₆Cl₂

Plumboagardite

Current formula: $(\text{Pb,REE,Ca})\text{Cu}_6(\text{AsO}_4)_3(\text{OH})_6(\text{H}_2\text{O})_3$

New formula: $\text{PbCu}_6(\text{AsO}_4)_2(\text{AsO}_3\text{OH})(\text{OH})_6(\text{H}_2\text{O})_3$

[Cf. zálesiite: $\text{CaCu}_6(\text{AsO}_4)_2(\text{AsO}_3\text{OH})(\text{OH})_6(\text{H}_2\text{O})_3$]

Potassiccarpholite

Current formula: $\text{K}(\text{Mn}^{2+},\text{Li})_2\text{Al}_4\text{Si}_4\text{O}_{12}(\text{OH},\text{F})_8$

New formula: $\text{K}(\text{Mn}^{2+},\text{Li})\text{Al}_4\text{Si}_4\text{O}_{12}(\text{OH})_8$

Putzite

Current formula: $(\text{Cu,Ag})_8\text{GeS}_6$

New formula: Cu_8GeS_6

[Cf. argyrodite: Ag_8GeS_6]

Serpierite

Current formula: $\text{Ca}(\text{Cu,Zn})_4(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_3$

New formula: $\text{CaCu}_4(\text{SO}_4)_2(\text{OH})_6(\text{H}_2\text{O})_3$

Thalcusite

Current formula: $\text{Tl}_2(\text{Cu,Fe})_4\text{S}_4$

New formula: $\text{Tl}_2(\text{Cu}^+{}_3\text{Fe}^{3+})\text{S}_4$

[Cf. bukovite: $\text{Tl}_2(\text{Cu}^+{}_3\text{Fe}^{3+})\text{Se}_4$]

Thorutite

Current formula: $(\text{Th,U,Ca})\text{Ti}_2(\text{O,OH})_6$

New formula: ThTi_2O_6

[Cf. brannerite: UTi_2O_6]

Yttrotungstite-(Ce)

Current formula: $\text{CeW}_2\text{O}_6(\text{OH})_3$

New formula: $\text{CeW}_2\text{O}_7(\text{OH})(\text{H}_2\text{O})$

[Cf. yttrotungstite-(Nd): $\text{NdW}_2\text{O}_7(\text{OH})(\text{H}_2\text{O})$]

Yttrotungstite-(Y)

Current formula: $\text{Y}(\text{W,Fe,Si,Al,Ti})_2(\text{O,OH,H}_2\text{O})_9$

New formula: $\text{YW}_2\text{O}_7(\text{OH})(\text{H}_2\text{O})$

[Cf. yttrotungstite-(Nd): $\text{NdW}_2\text{O}_7(\text{OH})(\text{H}_2\text{O})$]

Zincobriartite

Current formula: $\text{Cu}_2(\text{Zn,Fe})(\text{Ge,Ga})\text{S}_4$

New formula: $\text{Cu}_2\text{ZnGeS}_4$

[Cf. briartite: $\text{Cu}_2\text{FeGeS}_4$]