

**NEW MINERALS APPROVED IN 2010
NOMENCLATURE MODIFICATIONS APPROVED IN 2010
BY THE
COMMISSION ON NEW MINERALS, NOMENCLATURE AND
CLASSIFICATION
INTERNATIONAL MINERALOGICAL ASSOCIATION**

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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:

- IMA number
- Type locality
- Corresponding author
- Chemical formula
- Relationship to other minerals
- Crystal system, Space group; Structure determined, yes or no
- Unit-cell parameters
- 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

PROPOSALS APPROVED IN FEBRUARY 2010

IMA No. **2009-086**

Vico volcanic complex, Capranica, Viterbo Province, Latium, Italy

Athos Maria Callegari

$\text{KCaNaAl}_4\text{B}_4\text{Si}_2\text{O}_{18}$

New structure type

Monoclinic: $P2_1/n$; structure determined

$a = 4.8507(2)$, $b = 16.6156(6)$, $c = 20.5445(7)$ Å, $\beta = 90.245(1)^\circ$
4.104(90), 3.424(83), 3.234(100), 3.119(32), 2.425(31), 2.405(37), 2.184(38),
1.564(30)

IMA No. **2009-087**

Silver Coin mine, Valmy, Humboldt County, Nevada, USA (40°55'44"N
117°19'26"W) and Huber open pit, Krásno, Czech Republic (50°06'N 12°48'E)
(cotype localities)

Stuart Mills

$\text{Ca}_2\text{Al}_7(\text{PO}_4)_2(\text{PO}_3\text{OH})_2(\text{OH},\text{F})_{15}\cdot 8\text{H}_2\text{O}$

New structure type

Trigonal: $P321$; structure determined

$a = 6.988(1)$, $c = 16.707(3)$ Å
16.739(100), 6.054(18), 5.687(13), 3.488(9), 2.967(45), 2.219(19), 1.896(13),
1.744(17)

IMA No. **2009-088**

The chromite deposits of Nausahi, Keonjhar District, Orissa, India

Frank C. Hawthorne

$\text{NaCr}_3(\text{Al}_4\text{Mg}_2)(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$

Tourmaline group

Trigonal: $R3m$; structure determined

$a = 16.036(1)$, $c = 7.319(1)$ Å
6.487(60), 5.033(20), 4.642(20), 4.262(30), 4.010(50), 3.545(30), 3.013(35),
2.598(100)

IMA No. **2009-089**

Crabtree Emerald mine, Mitchell County, North Carolina, USA

Frank C. Hawthorne

$\text{NaMg}_3\text{Al}_6\text{Si}_6\text{O}_{18}(\text{BO}_3)_3(\text{OH})_3\text{F}$

Tourmaline group

Trigonal: $R3m$; structure determined

$a = 15.955(3)$, $c = 7.153(2)$ Å
6.375(19), 3.998(22), 3.475(100), 2.961(60), 2.583(67), 2.392(14), 2.123(14),
2.043(19)

IMA No. **2009-090**

Upper Chegem volcanic structure, Kabardino-Balkaria, North Caucasus, Russia
(43°17'N 43°6'E)

Evgeny V. Galuskin

CaSnO_3

Perovskite group

Orthorhombic: $Pbnm$; structure of synthetic analogue known

$a = 5.56(3)$, $b = 5.71(3)$, $c = 7.943(3)$ Å
3.984(52), 3.970(19), 2.855(43), 2.812(100), 2.780(19), 1.992(13), 1.985(13),
1.640(13)

IMA No. **2009-091**

Tranomaro area, Fort Dauphine region, Madagascar

Roberta Oberti



Amphibole group

Monoclinic: $C2/m$; structure determined

$a = 9.9104(2)$, $b = 17.9739(4)$, $c = 5.3205(1)$ Å, $\beta = 105.534(2)^\circ$

8.413(45), 3.374(31), 3.270(55), 3.133(100), 2.934(29), 2.809(47), 2.698(39),

1.647(29)

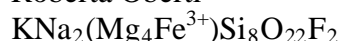
APPROVAL WITHDRAWN IN FEBRUARY 2010

IMA No. **2009-079**

About 25 km southwest from Monte Metocha, Xixano region, north-eastern

Mozambique

Roberta Oberti



Amphibole group

Monoclinic: $C2/m$; structure determined

$a = 9.9591(4)$, $b = 17.9529(6)$, $c = 5.2867(2)$ Å, $\beta = 103.340(1)^\circ$

8.499(58), 3.394(81), 3.286(43), 3.166(60), 2.746(43), 2.707(100), 2.583(45),

2.537(70)

1.873(40)

Approval has been **withdrawn** for the above mineral IMA 2009-079. The previous Chairman of CNMNC, Dr Ernst Burke, has noted that the same mineral was approved as IMA 85-023. At the same time that the mineral was approved, voting on the proposed name was suspended because of an imminent report on the nomenclature of the amphibole group. Subsequently, Hogarth *et al.* (1987) published definitive data for the mineral without noting that it had been approved by IMA, describing it as "potassium fluor-magnesio-arfvedsonite". As a result of later enquiries, and in light of the currently accepted amphibole nomenclature, Hogarth (2006) published a note in which the mineral approval was reported and named it fluoro-potassic-magnesio-arfvedsonite. This is the correct name for the mineral, renamed with IMA approval.

Hogarth, D.D. (2006) Fluoro-potassic-magnesio-arfvedsonite, $\text{KNa}_2\text{Mg}_5\text{Si}_8\text{O}_{22}\text{F}_2$, from the Outaouais region, Quebec, Canada. *Canadian Mineralogist*, **44**, 289.

Hogarth, D.D., Chao, G.Y. and Townsend, M.G. (1987) Potassium- and fluorine-rich amphiboles from the Gatineau area, Quebec. *Canadian Mineralogist*, **25**, 739-753.

NOMENCLATURE PROPOSAL APPROVED IN JANUARY 2010

IMA 09-D: The early publication of new mineral names

The Commission has determined to change the way preliminary data for newly approved minerals will be reported. Five additional items on the new minerals will be released every month by the CNMNC as follows:

- the mineral name (**unless the authors explicitly ask to keep it confidential until a full description is published**);
- the full authorship;
- the email contact of the corresponding author;
- the place of preservation and the catalogue number of the type material;

- how to cite the new mineral.

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

This change will come into effect in March 2010.

IMA 09-E Discreditation of “orthobrochantite” (IMA 78–064) as the MDO1 polytype of brochantite

Orthobrochantite is discredited. It corresponds to the MDO1 polytype of brochantite.