

Amorphous Mineral Species (not including metamict species, U/Th-bearing species, organic mixtures, or unapproved minerals)

Amorphous

Mineral	IMA Formula; other formula	IMA status	HOM	Mindat	RRUFF	Selected Reference(s)	Comments
allophane	Al2O3(SiO2)1.3-2.0·2.5-3.0H2O	G	y	y	2	Clays & Clay Min 33 (1985) 237-243; Am Min 106 (2021) 527-54C	
angastonite	CaMgAl2(PO4)2(OH)4·7H2O	Rd	y	y	n	European Journal of Mineralogy 34 (2022), 215-221	
diadochite	Fe2(PO4)(SO4)(OH)·6H2O	G	y	y	1	Clays & Clay Min 47 (1999) 1-11	X-ray amorphous; compare triclinic destinezite
evansite	Al3(PO4)(OH)6·8H2O	G	y	y	1	Can Min 33 (1995) 59-65	
georgeite	Cu2(CO3)(OH)2	Rd	y	y	n	Min Mag 55 (1991) 163-166	
metastibnite	Sb2S3	G	y	y	1	Dokl Akad Nauk SSSR 237 (1977) 937-940	
meymacite	WO3·2H2O	Rd	y	y	n	Bull Soc fr Mineral 88 (1965) 613-617	
opal	SiO2·nH2O	G	n	y	11	Powder Diffraction 13 (1998) 1-19; Am Min 60 (1975) 749-757	
santabarbaraite	Fe3(PO4)2(OH)3·5H2O	A	y	y	n	Eur J Min 15 (2003) 185-192	
bolivarite	Al2(PO4)(OH)3·4H2O	Q	n	y	n	Can Min 33 (1995) 59-65	may be equivalent to evansite
lechatelierite	SiO2	Q	n	y	n	Radiochem Radioanalyt Lett 54 (1982) 197-208	
pittcite	[Fe,AsO4,SO4,H2O] (?)	Q	y	y	n	Min Mag 46 (1982) 261-264	
richellite	CaFe2(PO4)2(OH,F)2	Q	y	y	n	Am Min 48 (1963) 300-307, Min Rec 26 (1995) 449-469	
rosièresite	[Pb,Cu,Al,PO4 ,H2O] (?)	Q	y	y	n	Dana (1951) volume II, 924	

A = approved; G = grandfathered (pre-1958); Rd = redefined; Q = questionable (poorly characterized, validity could be doubtful)

Amorphous to Poorly Crystalline

Mineral	IMA Formula; other formula	IMA status	HOM	Mindat	RRUFF	Selected Reference(s)	Comments
hisingerite	Fe2Si2O5(OH)4·2H2O	G	y	y	2	Clays & Clay Min 46 (1998) 400-413	monoclinic kaolinite-like structure by TEM
imogolite	Al2SiO3(OH)4	Rd	y	y	n	Clays & Clay Min 33 (1985) 237-243; Am Min 106 (2021) 527-54C	TEM diffraction pattern
jordisite	MoS2	G	y	y	1	Am Min 86 (2001) 852-861	electron diffraction shows layered structure
neotocite	(Mn,Fe)SiO3·H2O(?)	G	y	y	n	Min Mag 42 (1978) 279-280; Clay Minerals 18 (1983) 21-31	
yukonite	Ca2Fe3(AsO4)3(OH)4·4H2O	G	y	y	1	Environ Sci: Nano 7 (2020) 3735-3745, Min Mag 70 (2006) 73-81	nanocrystallinity shown by TEM and synchrotron
belyankinitite	Ca1-2(Ti,Zr,Nb)5O12·9H2O (?)	Q	y	y	n	Doklady Akademii Nauk SSSR 71 (1950), 925-927	biaxial negative; weak Laue pattern
ilsemannite	Mo3O8·nH2O (?)	Q	y	y	1	Am Min 36 (1951) 609-614	weak XRD pattern
varlamoffite	(Sn,Fe)(O,OH)2·Sn2FeO5(OH)	Q	n	y	n	Mineral Zhurnal 15 (1993) 94-101; Am Min 80 (1995) 850	XRD lines indicate structure similar to cassiterite
zaratite	Ni3(CO3)(OH)4·4H2O	Q	y	y	1	Eur J Min 25 (2013) 995-1002	weak XRD pattern

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