



>>Entry Name: Palygorskite, 9C1

ENTRY UNDER REVIEW

Synonym(s): Attapulgit

CAS Registry Number: 12174-11-7

Extra CAS Registry Numbers(s): 1337-76-4

$\text{Mg}_5[\text{Si}_2\text{O}_5]_4(\text{OH})_2 \cdot 8\text{H}_2\text{O}$

Molecular Formula: $\text{H}_{18}\text{Mg}_5\text{O}_{34}\text{Si}_8$

Molecular Weight: 908.331

Accurate Mass: 905.708586

Percentage Composition: H 2.00%; Mg 13.38%; O 59.89%; Si 24.74%

specimens that are similar to sepiolite except for some replacement of Mg by Al. A layer silicate. Also formulated as $(\text{Mg},\text{Al})_2\text{Si}_4\text{O}_{10}(\text{OH}) \cdot 4\text{H}_2\text{O}$

Source/Synthesis: A significant component of desert soils

Physical Description: White or grey monoclinic or orthorhombic cryst.

References:

Christ, C.L. *et al.*, *Am. Mineral.*, 1969, **54**, 198, (*cryst struct*)

Jones, B.F. *et al.*, *Rev. Mineral.*, 1988, **19**, 631, (*rev*)

Encyclopedia of Food and Color Additives, (ed. Burdock, G.A.), CRC Press, 1997, 636

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, PAE750