



>>Entry Name: Apophyllite, 9Cl

Synonym(s): Fluorapophyllite. Hydroxylapophyllite

CAS Registry Number: 58572-15-9

Extra CAS Registry Numbers(s): 1306-03-2

$\text{KCa}_4[\text{Si}_4\text{O}_{10}]_2(\text{F},\text{OH})\cdot 8\text{H}_2\text{O}$

Molecular Formula: $\text{Ca}_4\text{FH}_{16}\text{KO}_{28}\text{Si}_8$

Molecular Weight: 907.202

Accurate Mass: 905.61071

Percentage Composition: Ca 17.67%; F 2.09%; H 1.78%; K 4.31%; O 49.38%; Si 24.77%

General Statement: A series of undifferentiated minerals of the same formulation

Source/Synthesis: Occurs as a secondary mineral in cavities in basalts or other rocks; also as an alteration product of Wollastonite

Physical Description: White to colourless tetragonal cryst.

References:

Taylor, W.H. *et al.*, *Z. Kristallogr.*, 1931, **77**, 146, (*cryst struct*)

Winchell, A.N. *et al.*, *Elements of Optical Mineralogy, Part II*, 4th edn., Wiley, 1951, 394

Deer, W.A. *et al.*, *Rock Forming Minerals*, Longman, 1962, **3**, 258

Colville, A.A. *et al.*, *Am. Mineral.*, 1971, **56**, 1223; 1234; 1243, (*cryst struct*)

Dunn, P.J. *et al.*, *Am. Mineral.*, 1978, **63**, 196, (*nomenclature, cryst struct*)