



>>Entry Name: Antimony sulfate ($\text{Sb}_2(\text{SO}_4)_3$)

CAS Registry Number: 7446-32-4

$\text{Sb}_2(\text{SO}_4)_3$

Molecular Formula: $\text{O}_{12}\text{S}_3\text{Sb}_2$

Molecular Weight: 531.691

Accurate Mass: 529.662832

Percentage Composition: O 36.11%; S 18.09%; Sb 45.80%

General Statement: Infinite ladder struct. built of SO_4 tetrahedra and SbO_3 pyramids sharing corners. Monoclinic; Interatomic distances: Sb-O 203, 213, 222 pm

Source/Synthesis: Synth. from Sb_2O_3 in H_2SO_4 at 200°

Physical Description: Colourless cryst. Deliquescent. Dec. to basic sulfates by H_2O

References:

Hintermann, H.E. *et al.*, *J. Electrochem. Soc.*, 1968, **115**, 10, (*synth*)

Brauer, G., *Handbuch Prep. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **1**, 596, (*synth*)

Mercier, R. *et al.*, *Acta Cryst. B*, 1976, **32**, 2787, (*synth, cryst struct*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, AQJ250