



>>Entry Name: Ammonium disulfite

Synonym(s): Ammonium pyrosulfite. Ammonium metabisulfite

CAS Registry Number: 32736-64-4

Extra CAS Registry Numbers(s): 10192-30-0

$(\text{NH}_4)_2\text{S}_2\text{O}_5$

Molecular Formula: $\text{H}_8\text{N}_2\text{O}_5\text{S}_2$

Molecular Weight: 180.206

Accurate Mass: 179.987463

Percentage Composition: H 4.47%; N 15.55%; O 44.39%; S 35.59%

Source/Synthesis: Synth. from SO_2 + aq. NH_3

Physical Description: Cryst.

Other Data: In equilib. with $(\text{NH}_4)\text{HSO}_3$ in aq soln. The name ammonium bisulfite usually refers to this compd.

References:

Dives, E. *et al.*, *J.C.S.*, 1900, **77**, 335-340, (*synth*)

Baggio, S., *Acta Cryst. B*, 1971, **27**, 517-522, (*cryst struct*)

Hisatsune, I.C. *et al.*, *Can. J. Chem.*, 1975, **53**, 2646-2656, (*ir*)

Meyer, B. *et al.*, *Spectrochim. Acta A*, 1979, **35**, 345-354, (*Raman*)

Yamaguchi, T. *et al.*, *Acta Chem. Scand., Ser. A*, 1982, **36**, 377-389, (*soln struct*)