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>>Entry Name: Ammonium boron oxide ((NH<sub>4</sub>)B<sub>5</sub>O<sub>8</sub>)

Synonym(s): Ammonium pentaborate

CAS Registry Number: 12007-89-5

Extra CAS Registry Numbers(s): 12247-51-7 135890-30-1  
(NH<sub>4</sub>)B<sub>5</sub>O<sub>8</sub>

Molecular Formula: B<sub>5</sub>H<sub>4</sub>NO<sub>8</sub>

Molecular Weight: 200.089

Accurate Mass: 201.040219

Percentage Composition: B 27.02%; H 2.01%; N 7.00%; O 63.97%

Use/Importance: Used in anodic coating of Al

Physical Description: Cryst. + 4H<sub>2</sub>O

**References:**

Cook, W.R. *et al.*, *Acta Cryst.*, 1957, **10**, 705-707, (*cryst struct*)

Clark, J.R. *et al.*, *Am. Mineral.*, 1959, **44**, 1141-1149, (*cryst struct*)

Wilson, C.O. *et al.*, *Adv. Chem. Ser.*, 1961, **32**, 20-26, (*synth*)

Lehmann, H.A. *et al.*, *Z. Chem.*, 1965, **5**, 111, (*synth*)

Janda, R. *et al.*, *Spectrochim. Acta A*, 1980, **36**, 997-1001, (*ir, Raman*)