



>> **Name: Ammonium boron oxide ((NH₄)B₅O₈)**

Synonym(s): Ammonium pentaborate

CAS Registry Number: 12007-89-5

Extra CAS Registry Numbers(s): 12247-51-7 135890-30-1
(NH₄)B₅O₈

Molecular Formula: B₅H₄NO₈

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. + 4H₂O

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*)