>>**Entry Name: Ammonium bromide**

CAS Registry Number: 12124-97-9

$[NH_4]^{(+)}Br^{(-)}$ (cubic)

Molecular Formula: BrH_4N
Molecular Weight: 97.942
Accurate Mass: 96.97271
Percentage Composition: Br 81.58%; H 4.12%; N 14.30%
Source/Synthesis: Synth. from NH_3 + Br_2 or from NH_3 + HBr
Use/Importance: Commercially available. Has pharmaceutical and photographic applications
Physical Description: White cryst. solid, subl. when heated
Boiling Point: Subl. 400°
Solubility: V. sol. H_2O
Other Data: d_4^{20} 2.40. V.p. 862 mm at 400°

Aldrich: 34392-7
Fluka: 9697
Sigma: A2335

>>**Derivative:** Tetra-deutero compd.
Synonym(s): Tetradeuteroammonium bromide

CAS Registry Number: 12265-06-4
Molecular Formula: BrD_4N
Molecular Weight: 101.967
Source/Synthesis: Synth. from NH_4Br + excess D_2O
Use/Importance: Commercially available
Physical Description: Tetragonal or cubic cryst.
Solubility: V. sol. H_2O
Other Data: Interatomic distance: N-D 103 pm
Aldrich: 17657-5
Sigma: A5016

References:

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