>>**Entry Name: Ammonium iodide**

CAS Registry Number: 12027-06-4

$[NH_4]I$

Molecular Formula: H_4IN
Molecular Weight: 144.943
Accurate Mass: 144.938847
Percentage Composition: H 2.78%; I 87.55%; N 9.66%
General Statement: Fcc struct.
Source/Synthesis: From NH_3 + HI
Use/Importance: Commercially available. Used in photographic chemicals
Physical Description: Colourless, deliquescent cryst.
Melting Point: Mp 551°
Solubility: V. sol. H_2O, NH_3 (liq.)
Other Data: Subl. on heating
Hazard & Toxicity: Irritant

Aldrich: 20346-7
Fluka: 9875
Sigma: A8420

>>**Derivative:** Deutero compd.
Synonym(s): Ammonium iodide-d_4. Perdeuteroammonium iodide

CAS Registry Number: 12422-60-5
Molecular Formula: D_4IN
Molecular Weight: 148.968
Source/Synthesis: Formed from ND_3 + DI
Use/Importance: Commercially available
Physical Description: White cryst.
Solubility: V. sol. H_2O

References:

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Mellor Compr. Treat. Inorg. Theor. Chem., Longman, London, *Part* 1, 1964, **8/I**, 448, *(rev)*
Brauer, G.*, Handb. Prep. Inorg. Chem., 2nd edn., Academic Press*, 1965, **1**, 289, *(synth)*
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