



>> **Name: Ammonium chloride ((NH₄)Cl), 11Cl, JAN, USAN**

ENTRY UNDER REVIEW

Synonym(s): Sal ammoniac. Amchlor. Darammon. Ammonium muriate. Salmiac

CAS Registry Number: 12125-02-9

Related CAS Registry Numbers(s): 12015-14-4

[NH₄]Cl

Molecular Formula: ClH₄N

Molecular Weight: 53.491

Accurate Mass: 53.003226

Percentage Composition: Cl 66.28%; H 7.54%; N 26.19%

Use/Importance: Commercially available. Used in dry electric cells and as a flux in soldering. Expectorant, acidifying diuretic

Physical Description: Hygroscopic white solid

Solubility: V. sol. H₂O

Other Data: V.p. 758 mm at 338°. Subl. when heated

Hazard & Toxicity: Irritant

Aldrich: 44309-3

Fluka: 9718

Sigma: A9434

References:

Aldrich Library of Infrared Spectra, 3rd edn., 1981, 1521D, (ir)

Gmelin Handbook Inorg. Chem., Syst. No.23, 1936, 150, (bibl)

Mellor Compr. Treat. Inorg. Theor. Chem., 1964, **8/I**, Part 1; 378, (rev)

Kirk-Othmer Encycl. Chem. Technol., 3rd edn., Wiley, 1978, **2**, 520, (rev)

Encyclopedia of Food and Color Additives, (ed. Burdock, G.A.), CRC Press, 1997, 135-136

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, ANE500