



>>Entry Name: Ethylhydrazine, 9Cl, 8Cl

CAS Registry Number: 624-80-6

Related CAS Registry Numbers(s): 49540-34-3 116774-06-2
EtNHNH₂

Molecular Formula: C₂H₈N₂

Molecular Weight: 60.099

Accurate Mass: 60.068748

Percentage Composition: C 39.97%; H 13.42%; N 46.61%

Use/Importance: Used in photographic emulsion stabilizers

Physical Description: Hygroscopic liq. with ammoniacal odour

Boiling Point: Bp₇₀₉ 99.5°

Solubility: Sol. Et₂O, EtOH, CHCl₃, C₆H₆, H₂O

pKa Value: pK_a 7.91-7.99 (25°)

Other Data: Fumes in moist air. Corrosive. Attacks cork and rubber.

Hazard & Toxicity: Exp. carcinogen

>>Derivative: Hydrochloride

CAS Registry Number: 18413-14-4

Physical Description: Amorph. deliquescent solid

>>Derivative: Hydrochloride (1:2)

CAS Registry Number: 49540-34-3

Melting Point: Mp 145-147°

>>Derivative: Sulfate

CAS Registry Number: 34638-34-1

Physical Description: Plates or cryst. (EtOH aq.)

Melting Point: Mp 125-126°

Hazard & Toxicity: LD₅₀ (mus, ipr) 140 mg/kg

References:

Gever, G. *et al.*, *J.O.C.*, 1949, **14**, 813, (*synth*)

Schmitz, E. *et al.*, *Chem. Ber.*, 1962, **95**, 680, (*synth*)

Stroh, H.H. *et al.*, *Chem. Ber.*, 1965, **98**, 1588, (*synth*)

Prough, R.A. *et al.*, *Arch. Biochem. Biophys.*, 1969, **131**, 369, (*metab*)

Curphey, T.J. *et al.*, *J.O.C.*, 1972, **37**, 2259, (*sulphate*)

Condon, F.E. *et al.*, *Org. Prep. Proced. Int.*, 1973, **5**, 219, (*synth*)

Zenkevich, I.G. *et al.*, *Zh. Org. Khim.*, 1978, **14**, 1121, (*ms*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, ELC000