



>>Entry Name: Methylamine, 8Cl

Synonym(s): Methanamine, 9Cl. Aminomethane. Carbinamine

CAS Registry Number: 74-89-5

Related CAS Registry Numbers(s): 7436-22-8 14779-52-3 14779-55-6 17000-00-9

MeNH₂

Molecular Formula: CH₅N

Molecular Weight: 31.057

Accurate Mass: 31.042199

Percentage Composition: C 38.67%; H 16.23%; N 45.10%

Biological Source: Found in fish oils and plants, e.g. *Mercurialis annua*, *Mercurialis perennis*. Fairly widespread in fungi

Use/Importance: Refrigerant, nucleophile in org. synth., solvent

Physical Description: Flammable gas with strong ammoniacal odour. Freq. encountered as strong aq. soln

Melting Point: Mp -93.5°

Boiling Point: Bp -6.3°. Bp₂₀₀ -32.4°. Bp₁₀ -73.8°

Solubility: V. sol. H₂O

Density: d₄¹⁵ 0.699

Other Data: Crit. pt. 156.9°/73.6 atm.

Hazard & Toxicity: Extremely flammable, fl. p. -18°, autoignition temp. 430°. Eye, skin and respiratory tract irritant (and aq. soln.). OES: long-term 10 ppm

Aldrich: 42646-6

Fluka: 65590

>>Derivative: Monohydrate

Physical Description: Liq.

Density: d^{13.9} 0.899

>>Derivative: Trihydrate

Melting Point: Mp -35.8°

>>Derivative: Hydrochloride

CAS Registry Number: 593-51-1

Use/Importance: Used in tanning industry

Physical Description: Plates (EtOH)

Melting Point: Mp 227-228°

Boiling Point: Bp₁₅ 225-230°

Solubility: Sol. EtOH; insol. Me₂CO, Et₂O, CHCl₃

Aldrich: 24101-6

Fluka: 65600

Sigma: M0505

>>Derivative: N-Nitro

>>Derivative: Ac

>>Derivative: Di-Ac

Synonym(s): Methyldiacetamide

CAS Registry Number: 1113-68-4

Molecular Formula: C₅H₉NO₂

Molecular Weight: 115.132

Accurate Mass: 115.063329

Percentage Composition: C 52.16%; H 7.88%; N 12.17%; O 27.79%

Boiling Point: Bp 192°

Solubility: Misc. H₂O; insol. Et₂O

Rare Chemicals Library: S51119-6