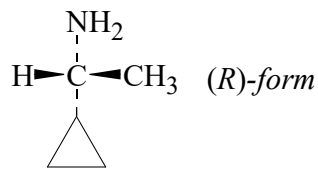




>>Entry Name: 1-Cyclopropylethylamine

Synonym(s): α -Methylcyclopropanemethanamine, 9CI



CAS Registry Number: 1621-24-5

Related CAS Registry Numbers(s): 195252-68-7

Molecular Formula: C₅H₁₁N

Molecular Weight: 85.149

Accurate Mass: 85.089149

Percentage Composition: C 70.53%; H 13.02%; N 16.45%

>>Variant: (S)-form

Molecular Formula: C₅H₁₁N

Molecular Weight: 85.149

Accurate Mass: 85.089149

Percentage Composition: C 70.53%; H 13.02%; N 16.45%

Physical Description: Liq.

Boiling Point: Bp 92-94°

Optical Rotation: $[\alpha]_D^{25} +21.3$ (neat)

Other Data: The abs. config. is not certain as two of the refs. disagree

>>Derivative: Hydrochloride

CAS Registry Number: 178033-78-8

Physical Description: Solid (Et₂O/EtOH)

Melting Point: Mp 173-175°. Mp 197-198°

Optical Rotation: $[\alpha]_D^{20} -3.6$ (c, 1.0 in H₂O)

>>Variant: (±)-form

Molecular Formula: C₅H₁₁N

Molecular Weight: 85.149

Accurate Mass: 85.089149

Percentage Composition: C 70.53%; H 13.02%; N 16.45%

Physical Description: Liq.

Boiling Point: Bp₇₄₀ 91-94°

Refractive Index: n_D^{25} 1.4243

>>Derivative: Hydrochloride

Extra CAS Registry Numbers(s): 42390-64-7

Physical Description: Cryst. (EtOH)

Melting Point: Mp 180-181°

References:

Vogel, M. *et al.*, *J.A.C.S.*, 1966, **88**, 2262-2271, (*synth, resoln*)

Andrès, C. *et al.*, *J.O.C.*, 1996, **61**, 4130-4135, (*synth, pmr, ir, abs config*)

Kelley, J.L. *et al.*, *J. Med. Chem.*, 1997, **40**, 3207-3216, (*synth, pmr, abs config*)