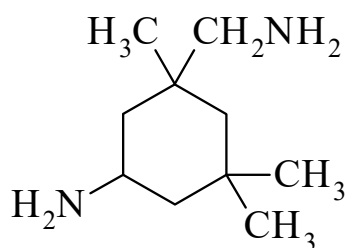




>> **Name:** 5-Amino-1,3,3-trimethylcyclohexanemethanamine, 9CI

Synonym(s): 3-(Aminomethyl)-3,5,5-trimethylcyclohexylamine. Isophorone diamine



CAS Registry Number: 2855-13-2

Extra CAS Registry Numbers(s): 71954-29-5 71954-30-8

Molecular Formula: C₁₀H₂₂N₂

Molecular Weight: 170.297

Accurate Mass: 170.178298

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

Use/Importance: Monomer for polyurethanes. Crosslinking agent for epoxy resins

Boiling Point: Bp_{2.5} 113-114°

Refractive Index: n_D²⁰ 1.4888

Other Data: Mixt. of *cis* and *trans*-isomers

Aldrich: 11818-4

Fluka: 8655

Rare Chemicals Library: S43211-3

Sigma: A0957

>> **Derivative:** *N,N'*-Diisopropyl

Extra CAS Registry Numbers(s): 70414-42-5 70414-48-1

Molecular Formula: C₁₆H₃₄N₂

Molecular Weight: 254.458

Accurate Mass: 254.272198

Percentage Composition: C 75.52%; H 13.47%; N 11.01%

Boiling Point: Bp_{1.5} 99-100°

References:

U.S. Pat., 1967, 3 352 913; *CA*, **68**, 12553z, (*synth*)

Klemm, D. *et al.*, *J. Prakt. Chem.*, 1979, **321**, 680-682, (*N,N'*-diisopropyl)

Wendisch, D. *et al.*, *Angew. Makromol. Chem.*, 1986, **141**, 173-183, (*pmr*, *cmr*)

Gillet, J.P. *et al.*, *Stud. Surf. Sci. Catal.*, 1993, **78**, 321, (*synth*)