



>>Entry Name: Ethyldiisopropylamine

Synonym(s): *N*-Ethyl-*N*-(1-methylethyl)-2-propanamine, 9Cl. 1,1'-Dimethyltriethylamine, 8Cl. Diisopropylethylamine. Huenig's base

CAS Registry Number: 7087-68-5

$(\text{H}_3\text{C})_2\text{CHNEtCH}(\text{CH}_3)_2$

Molecular Formula: $\text{C}_8\text{H}_{19}\text{N}$

Molecular Weight: 129.245

Accurate Mass: 129.151749

Percentage Composition: C 74.35%; H 14.82%; N 10.84%

Use/Importance: Proton acceptor in alkylations and acylations. Maximises yields owing to combination of very low nucleophilicity with high proton affinity

Boiling Point: Bp 128°

Aldrich: 38764-9

Fluka: 3440

Rare Chemicals Library: S32760-3

Sigma: D9420

>>Derivative: Hydrogen tetrafluoroborate

CAS Registry Number: 15621-45-1

Physical Description: Cryst. ($\text{Me}_2\text{CO}/\text{Et}_2\text{O}$)

Melting Point: Mp 220-221°

>>Derivative: 4-Methylbenzenesulfonate

CAS Registry Number: 62359-01-7

Molecular Formula: $\text{C}_{15}\text{H}_{27}\text{NO}_3\text{S}$

Molecular Weight: 301.449

Accurate Mass: 301.171164

Percentage Composition: C 59.77%; H 9.03%; N 4.65%; O 15.92%; S 10.64%

Physical Description: Cryst.

Melting Point: Mp 87-88.5°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 300C, (*ir*)

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Robinson, R.A., *J.O.C.*, 1951, **16**, 1911-1920, (*synth*)

Huenig, S. *et al.*, *Chem. Ber.*, 1958, **91**, 380-392, (*synth, use*)

Scherowsky, G., *Annalen*, 1970, **739**, 45-55, (*synth*)

Still, W.C., *Synthesis*, 1976, 453-454, (*use*)

Jacobson, R.M. *et al.*, *J.O.C.*, 1977, **42**, 2545, (*tosyl*)

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