



>>Entry Name: **1-Amino-2-methyl-2-propanol**, 9CI

Synonym(s): Amino-*tert*-butyl alcohol. 2-Hydroxyisobutylamine. Aminotrimethylcarbinol

CAS Registry Number: 2854-16-2

Related CAS Registry Numbers(s): 119330-21-1



Molecular Formula: C₄H₁₁NO

Molecular Weight: 89.137

Accurate Mass: 89.084064

Percentage Composition: C 53.90%; H 12.44%; N 15.71%; O 17.95%

Biological Source: Component of phospholipids of *Neurospora crassa*

Boiling Point: Bp 151°. Bp₂₀ 81°

Density: d₂₀²⁰ 0.929

Refractive Index: n_D¹⁸ 1.4460

>>Derivative: Hydrochloride

CAS Registry Number: 30533-50-7

Physical Description: Hygroscopic cryst.

Melting Point: Mp 62-65°

>>Derivative: *N*-Benzoyl

CAS Registry Number: 33561-46-5

Molecular Formula: C₁₁H₁₅NO₂

Molecular Weight: 193.245

Accurate Mass: 193.110279

Percentage Composition: C 68.37%; H 7.82%; N 7.25%; O 16.56%

Melting Point: Mp 108°

>>Derivative: *N,N*-Di-Me

Synonym(s): 1-(Dimethylamino)-2-methyl-2-propanol

CAS Registry Number: 14123-48-9

Molecular Formula: C₆H₁₅NO

Molecular Weight: 117.191

Accurate Mass: 117.115364

Percentage Composition: C 61.49%; H 12.90%; N 11.95%; O 13.65%

Biological Source: Aggregation pheromone of cockroach *Blatella germanica*

Physical Description: Liq.

Boiling Point: Bp₄₈ 60°

>>Derivative: *N*-(2,4-Dinitrophenyl)

Physical Description: Yellow-orange cryst. (C₆H₆/petrol)

Melting Point: Mp 107-108°

References:

Krassusky, K., *C. R. Hebd. Seances Acad. Sci.*, 1908, **146**, 238, (*synth*)

Cairn, T.L. *et al.*, *J.A.C.S.*, 1941, **63**, 1034, (*synth*)

Vanderwerf, C.A. *et al.*, *J.A.C.S.*, 1954, **76**, 1231, (*synth*)

Ellman, G.L. *et al.*, *J.A.C.S.*, 1954, **76**, 4028, (*isol*)

Pfleiderer, W. *et al.*, *Chem. Ber.*, 1966, **99**, 3008, (*synth*)

Magnet, M. *et al.*, *Bull. Soc. Chim. Fr.*, 1978, 539; 550, (*synth*)

Sakuma, M. *et al.*, *Appl. Entomol. Zool.*, 1990, **25**, 355, (*isol, deriv*)

Rai, B.L. *et al.*, *J. Med. Chem.*, 1998, **41**, 3347-3359, (*synth*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, ALB250