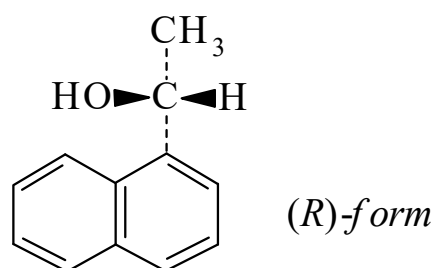




>>Entry Name: 1-(1-Naphthalenyl)ethanol

Synonym(s): α -Methyl-1-naphthalenemethanol, 9CI, 8CI. Methyl-1-naphthylcarbinol. α -Hydroxy-1-ethylnaphthalene



CAS Registry Number: 1517-72-2

Molecular Formula: $C_{12}H_{12}O$

Molecular Weight: 172.226

Accurate Mass: 172.088815

Percentage Composition: C 83.69%; H 7.02%; O 9.29%

>>Variant: (R)-form

CAS Registry Number: 42177-25-3

Molecular Formula: $C_{12}H_{12}O$

Molecular Weight: 172.226

Accurate Mass: 172.088815

Percentage Composition: C 83.69%; H 7.02%; O 9.29%

Optical Rotation: $[\alpha]_D^{25} +82.1$ (c, 1.0 in Et_2O) (100% op)

Aldrich: 37231-5

Fluka: 70692

>>Variant: (S)-form

CAS Registry Number: 15914-84-8

Molecular Formula: $C_{12}H_{12}O$

Molecular Weight: 172.226

Accurate Mass: 172.088815

Percentage Composition: C 83.69%; H 7.02%; O 9.29%

Physical Description: Cryst.

Melting Point: Mp 47° ($43.5-45^\circ$)

Boiling Point: Bp₁₁ 166°

Optical Rotation: $[\alpha]_D^{25} -69.3$ (c, 0.99 in Et_2O)

Aldrich: 37232-3

Fluka: 70693

>>Variant: ($\pm$)-form

CAS Registry Number: 57605-95-5

Molecular Formula: $C_{12}H_{12}O$

Molecular Weight: 172.226

Accurate Mass: 172.088815

Percentage Composition: C 83.69%; H 7.02%; O 9.29%

Physical Description: Cryst. (petrol)

Melting Point: Mp 66°

Boiling Point: Bp₁₅ 178°

Aldrich: 28946-9

Fluka: 70694

References:

- Balfé, M.P. *et al.*, *J.C.S.*, 1946, 797, (*resoln*)
Prelog, V. *et al.*, *Helv. Chim. Acta*, 1956, **39**, 1086, (*abs config*)
Mitsui, S. *et al.*, *Tetrahedron*, 1967, **23**, 4271-4277, (*Ac*)
Cervinka, O., *Coll. Czech. Chem. Comm.*, 1973, **38**, 441, (*abs config*)
Seebach, D. *et al.*, *Chem. Ber.*, 1974, **107**, 1748, (*synth*)
Sugimoto, T. *et al.*, *Chem. Comm.*, 1978, 926, (*synth*)
Theisen, P.D. *et al.*, *J.O.C.*, 1988, **53**, 2374, (*synth, resoln, ir, pmr, cmr*)
Kim, J.M. *et al.*, *Can. J. Chem.*, 1995, **73**, 885-895, (*synth, pmr, cmr*)
Fleming, I. *et al.*, *J.C.S. Perkin I*, 1998, 2733-2747, (*R-form, synth*)
Kuwano, R. *et al.*, *Bull. Chem. Soc. Jpn.*, 2000, **73**, 485-496, (*S-form, synth, pmr*)