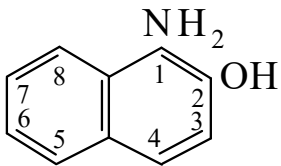




>>>Entry Name: 1-Amino-2-naphthol

Synonym(s): 1-Amino-2-naphthalenol, 9Cl. 2-Hydroxy- α -naphthylamine



CAS Registry Number: 2834-92-6

Molecular Formula: C₁₀H₉NO

Molecular Weight: 159.187

Accurate Mass: 159.068414

Percentage Composition: C 75.45%; H 5.70%; N 8.80%; O 10.05%

Physical Description: Leaflets (Et₂O)

Melting Point: Mp 150 dec., 175° dec.°

Solubility: Spar. sol. Et₂O; sol. EtOH, AcOH, dil. acids, alkalis

>>>Derivative: Hydrochloride

CAS Registry Number: 1198-27-2

Melting Point: Mp 250 dec.°

Aldrich: 13347-7

>>>Derivative: N-Ac

CAS Registry Number: 117-93-1

Molecular Formula: C₁₂H₁₁NO₂

Molecular Weight: 201.224

Accurate Mass: 201.078979

Percentage Composition: C 71.63%; H 5.51%; N 6.96%; O 15.90%

Physical Description: Leaflets (EtOH)

Melting Point: Mp 235°

>>>Derivative: N-Octanesulfonyl

Synonym(s): 1-Octanesulfonamido-2-naphthol. N-(2-Hydroxy-1-naphthalenyl)-1-octanesulfonamide, 9Cl

CAS Registry Number: 86252-97-3

Molecular Formula: C₁₈H₂₅NO₃S

Molecular Weight: 335.466

Accurate Mass: 335.155514

Percentage Composition: C 64.45%; H 7.51%; N 4.18%; O 14.31%; S 9.56%

Use/Importance: Used as a 0.1% soln. in PhCl for extraction separation of Cu(II), Co, Zn, Cd, Pb, Hg(II)

Physical Description: Brown cryst.

Melting Point: Mp 71.5-72.5°

Solubility: Sol. PhCl, cyclohexane, MeOH

>>>Derivative: Me ether

Synonym(s): 2-Methoxy-1-naphthylamine

CAS Registry Number: 2246-42-6

Molecular Formula: C₁₁H₁₁NO

Molecular Weight: 173.214

Accurate Mass: 173.084064

Percentage Composition: C 76.28%; H 6.40%; N 8.09%; O 9.24%

Physical Description: Prisms (MeOH)

Melting Point: Mp 55°

Boiling Point: Bp_{0.05} 110°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1252B, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **1**, 1060C, (*nmr*)

Org. Synth., 1931, **21**, 8, (*synth*)

Fieser, L.F. *et al.*, *J.A.C.S.*, 1935, **57**, 491, (*synth*)

Ide, S. *et al.*, *Anal. Chim. Acta*, 1983, **149**, 235, (*octanesulfonamide, synth, use*)

Watanabe, T. *et al.*, *Chem. Pharm. Bull.*, 1991, **39**, 3145, (*Me ether*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, ALK000