



>>Entry Name: 8-Amino-2-naphthol

Synonym(s): 8-Amino-2-naphthalenol, 9Cl. 7-Hydroxy- α -naphthylamine

CAS Registry Number: 118-46-7

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%

Use/Importance: Derivatisation reagent for acyl halides for hplc anal. (used as Na salt)

Physical Description: Needles (EtOH)

Melting Point: Mp 205-207°

Solubility: Sol. hot H₂O, EtOH

Other Data: Sol. in acids and alkalis with blue fluor.

>>Derivative: N-Ac

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: Needles (AcOH aq.)

Melting Point: Mp 164-165°

>>Derivative: Me ether

Synonym(s): 7-Methoxy-1-naphthylamine. 7-Amino-1-methoxynaphthalene

CAS Registry Number: 5302-79-4

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: Cryst. (hexane)

Melting Point: Mp 78°

Boiling Point: Bp₅ 151-153°

>>Derivative: Et ether

Synonym(s): 7-Ethoxy-1-naphthylamine. 7-Amino-1-ethoxynaphthalene

Molecular Formula: C₁₂H₁₃NO

Molecular Weight: 187.241

Accurate Mass: 187.099714

Percentage Composition: C 76.98%; H 7.00%; N 7.48%; O 8.54%

Physical Description: Prisms (petrol)

Melting Point: Mp 67°

Boiling Point: Bp 315°

References:

Brown, W.F. *et al.*, *J.A.C.S.*, 1929, **51**, 1766, (*synth*)

Bachman, G.B. *et al.*, *J.A.C.S.*, 1946, **68**, 1599, (*Me ether*)

Colgon, S.T. *et al.*, *J. Chromatogr. Sci.*, 1988, **26**, 501, (*use*)

Janin, Y.L. *et al.*, *Synthesis*, 1993, 57, (*Me ether*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, ALJ750