



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

Synonym(s): 1-(1-Hydroxy-2-naphthalenyl)ethanone, 9Cl. 1-Hydroxy-2-acetonaphthone. 2-Acetyl-1-hydroxynaphthalene

CAS Registry Number: 711-79-5

Molecular Formula: C₁₂H₁₀O₂

Molecular Weight: 186.21

Accurate Mass: 186.06808

Percentage Composition: C 77.40%; H 5.41%; O 17.18%

Physical Description: Green-yellow needles (EtOH), prisms (C₆H₆ or petrol)

Melting Point: Mp 103° (needles). Mp 98° (prisms)

Boiling Point: Bp 325° sl. dec.

Solubility: Sol. AcOH, CHCl₃, CS₂, C₆H₆; insol. H₂O

Other Data: Pale-yellow soln. in most solvs., colourless in petrol

Aldrich: 20566-4

Rare Chemicals Library: S28085-2

Sigma: H9654

>>Derivative: Me ether

Molecular Formula: C₁₃H₁₂O₂

Molecular Weight: 200.237

Accurate Mass: 200.08373

Percentage Composition: C 77.98%; H 6.04%; O 15.98%

Melting Point: Mp 49°

>>Derivative: Et ether

Molecular Formula: C₁₄H₁₄O₂

Molecular Weight: 214.263

Accurate Mass: 214.09938

Percentage Composition: C 78.48%; H 6.59%; O 14.93%

Boiling Point: Bp 320°

>>Derivative: Ac

Molecular Formula: C₁₄H₁₂O₃

Molecular Weight: 228.247

Accurate Mass: 228.078645

Percentage Composition: C 73.67%; H 5.30%; O 21.03%

Melting Point: Mp 107°

>>Derivative: Oxime

CAS Registry Number: 51864-09-6

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%

Use/Importance: Used as 1% EtOH soln. for gravimetric detn. of Ni (pH 8.5), Cu(II), Pd(II), Mn

Physical Description: Cryst.

Melting Point: Mp 168-169°

Solubility: Sol. EtOH

>>Derivative: Phenylhydrazone

Melting Point: Mp 141°

References: