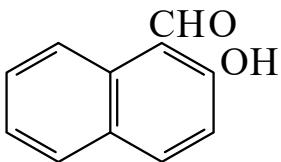




>>Entry Name: 2-Hydroxy-1-naphthalenecarboxaldehyde, 9CI
Synonym(s): 2-Hydroxy-1-naphthaldehyde, 8CI. 1-Formyl-2-naphthol



CAS Registry Number: 708-06-5

Molecular Formula: C₁₁H₈O₂
Molecular Weight: 172.183
Accurate Mass: 172.05243
Percentage Composition: C 76.73%; H 4.68%; O 18.58%
Use/Importance: Used for gravimetric detn. of Mg
Physical Description: Yellow needles (hexane)
Melting Point: Mp 82°

Aldrich: H4535-3
Fluka: 55890
Rare Chemicals Library: S26607-8
Sigma: H9135

>>Derivative: Oxime

CAS Registry Number: 7470-09-9

Molecular Formula: C₁₁H₉NO₂
Molecular Weight: 187.198
Accurate Mass: 187.063329
Percentage Composition: C 70.58%; H 4.85%; N 7.48%; O 17.09%
Use/Importance: Used as 0.02M in CHCl₃ soln. for extraction-photometric detn. of Ni ($\lambda_{\max}$ 412 nm, ϵ 7000); gravimetric detn. of V(IV); photometric detn. of U(VI)
Physical Description: Needles
Melting Point: Mp 157°
Solubility: Sol. common org. solvs; sl. sol. H₂O

>>Derivative: Semicarbazone

CAS Registry Number: 56536-09-5

Molecular Formula: C₁₂H₁₁N₃O₂
Molecular Weight: 229.238
Accurate Mass: 229.085127
Percentage Composition: C 62.87%; H 4.84%; N 18.33%; O 13.96%
Use/Importance: Used as EtOH soln. for fluorimetric detn. of Sc ($\lambda_{\max}$ 445 nm, acetate buffer)
Physical Description: Yellow cryst. (EtOH)
Solubility: Sol. DMF; spar. sol. EtOH, Me₂CO

>>Derivative: Thiosemicarbazone

CAS Registry Number: 7410-40-4

Molecular Formula: C₁₂H₁₁N₃OS
Molecular Weight: 245.304
Accurate Mass: 245.062282
Percentage Composition: C 58.76%; H 4.52%; N 17.13%; O 6.52%; S 13.07%
Use/Importance: Used as 0.015% soln. in EtOH for kinetic-photometric detn. of Mn
Physical Description: Yellow cryst. (EtOH/Me₂CO aq.)
Melting Point: Mp 275°
Solubility: Sol. DMF; spar. sol. EtOH, Me₂CO