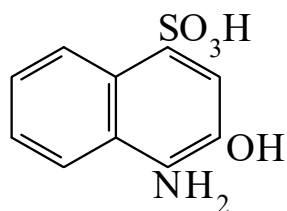




>>Entry Name: 4-Amino-3-hydroxy-1-naphthalenesulfonic acid, 9Cl

Synonym(s): 1-Amino-2-naphthol-4-sulfonic acid. 1,2,4-Acid



CAS Registry Number: 116-63-2

Molecular Formula: C₁₀H₉NO₄S

Molecular Weight: 239.251

Accurate Mass: 239.025229

Percentage Composition: C 50.20%; H 3.79%; N 5.85%; O 26.75%; S 13.40%

Use/Importance: Intermediate for azo-dyestuff manuf. Used for photometric detn. of Si

Physical Description: Grey needles which turn red in exp. to light

Solubility: Insol. cold EtOH, Et₂O, C₆H₆; spar. sol. H₂O

Aldrich: 10975-4

Fluka: 8751

Rare Chemicals Library: S44088-4

Sigma: J5468

>>Derivative: *O,N*-Di-Ac

Molecular Formula: C₁₄H₁₃NO₆S

Molecular Weight: 323.326

Accurate Mass: 323.046359

Percentage Composition: C 52.01%; H 4.05%; N 4.33%; O 29.69%; S 9.92%

Melting Point: Mp 194-195° (as Py salt)

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 500A, (*ir*)

Fieser, L.F., *J.A.C.S.*, 1935, **57**, 494, (*synth*)

Zaloudek, J. *et al.*, *CA*, 1966, **64**, 15813h, (*synth*)

Sorrentino, F.A. *et al.*, *Microchem. J.*, 1970, **15**, 441, (*detn, Si*)