



>>Entry Name: 8-Amino-1-naphthalenesulfonic acid, 9CI

Synonym(s): 1-Naphthylamine-8-sulfonic acid. Peri acid. Schollkopf's acid

CAS Registry Number: 82-75-7

Related CAS Registry Numbers(s): 28836-03-5 34074-97-0

Molecular Formula: C₁₀H₉NO₃S

Molecular Weight: 223.252

Accurate Mass: 223.030314

Percentage Composition: C 53.80%; H 4.06%; N 6.27%; O 21.50%; S 14.36%

Use/Importance: Dyestuff intermed.

Physical Description: Needles + 1H₂O

Solubility: V. spar. sol. cold H₂O; spar. sol. hot H₂O

pKa Value: pK_a 4.99 (25°)

Rare Chemicals Library: S59123-8

>>Derivative: Anilide

Molecular Formula: C₁₆H₁₄N₂O₂S

Molecular Weight: 298.365

Accurate Mass: 298.077598

Percentage Composition: C 64.41%; H 4.73%; N 9.39%; O 10.72%; S 10.75%

Melting Point: Mp 139-140°

>>Derivative: N-Ph

Synonym(s): 8-(Phenylamino)-1-naphthalenesulfonic acid, 9CI. 8-Anilino-1-naphthalenesulfonic acid. Phenylperi acid

CAS Registry Number: 82-76-8

Molecular Formula: C₁₆H₁₃NO₃S

Molecular Weight: 299.35

Accurate Mass: 299.061614

Percentage Composition: C 64.20%; H 4.38%; N 4.68%; O 16.03%; S 10.71%

Use/Importance: Fluorescent probe used extensively for protein studies

Physical Description: Green needles

Other Data: Dec. to a tar on heating

Aldrich: 13992-0

Sigma: A1028

References:

Aldrich Library of Infrared Spectra, 3rd edn., 1981, 1158G, (ir)

Wahl, A. *et al.*, *Bull. Soc. Chim. Fr.*, 1927, **41**, 1514, (synth)

U.K. Pat., 1933, 389 098; *CA*, **27**, 4545, (synth)

Hodgson, H.H. *et al.*, *J. Soc. Chem. Ind., London*, 1939, **58**, 154, (synth, deriv)

Caullet, C. *et al.*, *CA*, 1967, **67**, 58864, (ir)

Franc, J. *et al.*, *J. Chromatogr.*, 1979, **70**, 89, (chromatog)