



>>Entry Name: **2-Amino-1-naphthalenesulfonic acid**, 9CI
Synonym(s): 2-Naphthylamine-1-sulfonic acid. Tobias' acid

CAS Registry Number: 81-16-3

Molecular Formula: $C_{10}H_9NO_3S$

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 intermediate, low acute mammalian toxicity

Physical Description: Anhydrous flakes (hot H_2O) or hydrated needles (cold H_2O)

pKa Value: pK_a 2.35 (25°)

Hazard & Toxicity: Eye irritant

Aldrich: 29113-7

Fluka: 70840

Rare Chemicals Library: S59099-1

>>Derivative: Benzoylguanidine salt

Melting Point: Mp 185-186°

References:

Erdmann, H., *Annalen*, 1893, **275**, 274, (*synth*)

Green, A.G. *et al.*, *J.C.S.*, 1918, **113**, 40

Schriever, K. *et al.*, *Chem. Ber.*, 1958, **91**, 414

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

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

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, ALH750