



>>Entry Name: **2-Amino-5-nitrobenzenesulfonic acid**, 9CI

Synonym(s): 4-Nitroaniline-2-sulfonic acid. 4-Nitroorthanilic acid

CAS Registry Number: 96-75-3

Related CAS Registry Numbers(s): 30693-53-9

Molecular Formula: $C_6H_6N_2O_5S$

Molecular Weight: 218.19

Accurate Mass: 217.999743

Percentage Composition: C 33.03%; H 2.77%; N 12.84%; O 36.66%; S 14.70%

Physical Description: Yellow cryst.

pKa Value: pK_{a3} 17.47 (20°, NaOH aq.)

>>Derivative: NH_4 salt

CAS Registry Number: 4346-51-4

Physical Description: Orange cryst. (H_2O)

>>Derivative: Amide

CAS Registry Number: 54734-85-9

Molecular Formula: $C_6H_7N_3O_4S$

Molecular Weight: 217.205

Accurate Mass: 217.015727

Percentage Composition: C 33.18%; H 3.25%; N 19.35%; O 29.46%; S 14.76%

Physical Description: Yellow needles (H_2O)

Melting Point: Mp 207°

References:

Scott, J.R. *et al.*, *J.C.S.*, 1922, **121**, 2034

Arnett, E.A. *et al.*, *J.A.C.S.*, 1966, **88**, 3140, (*uv*)

Halle, J.-C. *et al.*, *Bull. Soc. Chim. Fr.*, 1969, 4569

Poshkus, A.C., *Ind. Eng. Chem. Prod. Res. Dev.*, 1971, **10**, 72, (*synth*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, NEP500