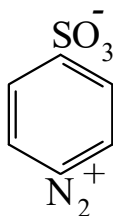




>>Entry Name: 4-Diazobenzenesulfonic acid, 9Cl

Synonym(s): 4-Sulfobenzenediazonium hydroxide inner salt, 9Cl. Diazosulfanilic acid. Pauly's reagent. 4-Sulfobenzenediazonium



CAS Registry Number: 305-80-6

Related CAS Registry Numbers(s): 2154-66-7

Molecular Formula: C₆H₄N₂O₃S

Molecular Weight: 184.175

Accurate Mass: 183.994263

Percentage Composition: C 39.13%; H 2.19%; N 15.21%; O 26.06%; S 17.41%

Use/Importance: Used as aq. soln. for photometric detn. of Al, Mg

Physical Description: Needles (H₂O)

Solubility: Sol. H₂O

Hazard & Toxicity: Explosive when dry

References:

Zincke, T. *et al.*, *Annalen*, 1905, **339**, 226, (*synth*)

Welcher, F.J., *Organic Analytical Reagents*, Van Nostrand, Princeton, 1947, **4**, 276, (*detn, Al, Mg, synth*)

Whetsel, K.B. *et al.*, *J.A.C.S.*, 1956, **78**, 3360, (*synth, ir*)

Sass, R.L. *et al.*, *Acta Cryst. B*, 1970, **26**, 1187, (*cryst struct*)

R}omming, C., *Acta Chem. Scand.*, 1972, **26**, 523, (*cryst struct*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, BBO250