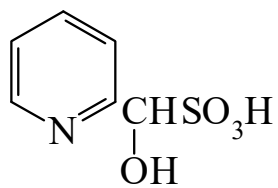




>>Entry Name: 2-Hydroxy-2-(2-pyridyl)methanesulfonic acid

Synonym(s): α -Hydroxy 2-pyridinemethanesulfonic acid, 8Cl



CAS Registry Number: 3343-41-7

Molecular Formula: $C_6H_7NO_4S$

Molecular Weight: 189.192

Accurate Mass: 189.009579

Percentage Composition: C 38.09%; H 3.73%; N 7.40%; O 33.83%; S 16.95%

Use/Importance: Used as a 0.02% soln. in dil. NH_3 for photometric detn. of $Fe(II)$ (λ_{max} 525 nm). Commercially available

Physical Description: Cryst.

Boiling Point: Subl. 224°

Solubility: Sol. alkalis; mod. sol. H_2O

pKa Value: pK_{a1} 4.05; pK_{a2} 9.7 (25°, 0.1M $NaClO_4$)

Hazard & Toxicity: Toxic if inhaled

Aldrich: 85616-9

Sigma: P5528

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 802C, (ir)

Sigma-Aldrich Library of Chemical Safety Data, **2**, 3005B, (haz)

Banford, L. *et al.*, *J.C.S.*, 1964, 378, (pK_a)

Pitt, E.E.H. *et al.*, *Anal. Chem.*, 1969, **41**, 981, (detn, Fe)