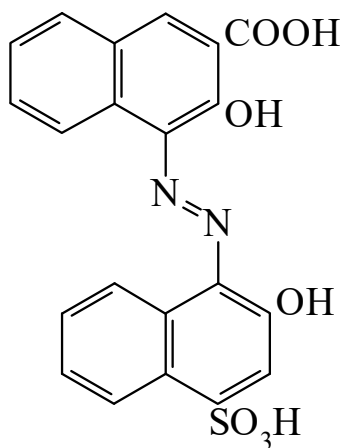




>>Entry Name: 3-Hydroxy-4-[(2-hydroxy-4-sulfo-1-naphthalenyl)azo]-2-naphthalenecarboxylic acid

Synonym(s): 2,2'-Dihydroxy-4'-sulfo-1,1'-azonaphthalene-3-carboxylic acid. Calconcarboxylic acid. Calred. Kalces. Patton and Reeder's dye



CAS Registry Number: 3737-95-9

Molecular Formula: $C_{21}H_{14}N_2O_7S$

Molecular Weight: 438.417

Accurate Mass: 438.052173

Percentage Composition: C 57.53%; H 3.22%; N 6.39%; O 25.55%; S 7.31%

Use/Importance: Used as 0.74mM EtOH soln. for photometric detn. of $F^{(-)}$ (based on bleaching of the Al-reagent complex)

Solubility: Sol. hot H_2O , MeOH

pKa Value: pK_{a1} 1; pK_{a2} 3.8; pK_{a4} 13.6 (24°, 0.1M KCl)

Other Data: Hygroscopic

Aldrich: 13079-6

Fluka: 21260

Sigma: H3128

>>Derivative: Na salt

CAS Registry Number: 38756-90-0

Use/Importance: Used in a mixt. (1:100) with NaCl as metallochromic indicator in titrimetric detn. of Ca in the presence of Mg; used as 0.1mM aq. soln. for photometric detn. of U(VI) (λ_{max} 570 nm, ϵ 13600)

Physical Description: Dark violet cryst. powder

Solubility: Sol. H_2O

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