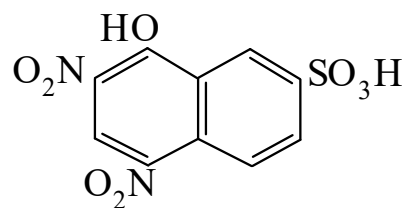




>>Entry Name: 8-Hydroxy-5,7-dinitro-2-naphthalenesulfonic acid, 8CI

Synonym(s): Flavianic acid. Acid yellow S. Citronin A. Naphthol yellow S. Sulfur yellow S. C.I. Acid yellow 1. FD and C Yellow No. 1. Furabian acid



Related CAS Registry Numbers(s): 483-84-1 6696-61-3

Molecular Formula: C₁₀H₆N₂O₈S

Molecular Weight: 314.232

Accurate Mass: 313.984488

Percentage Composition: C 38.22%; H 1.92%; N 8.91%; O 40.73%; S 10.20%

Physical Description: Light yellow needles + 3H₂O

Melting Point: Mp 100°

Solubility: Sol. H₂O

>>Derivative: Di-Na salt

CAS Registry Number: 846-70-8

Use/Importance: Dye for wool and silk, used in photography. Used as saturated aq. soln. for selective gravimetric detn. of Zr (pH 0.7, in the presence of Fe, Al, Cr, Be, U, Ti and Th)

Physical Description: Greenish-yellow powder

Melting Point: Mp 148-151°

Solubility: Sol. H₂O

Aldrich: 19962-1

Fluka: 70540

Sigma: F7754

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 954A, (*ir*)

Sigma-Aldrich Library of Stains, Dyes and Indicators, 500

King, H.J.S., *J.C.S.*, 1924, **125**, 1329, (*synth*)

Yuteiko, T. *et al.*, *Chem. Pharm. Bull.*, 1965, **13**, 399, (*uv*)

Rybakov, A.A. *et al.*, *Zh. Anal. Khim.*, 1979, **34**, 1110, (*detn, Zr*)