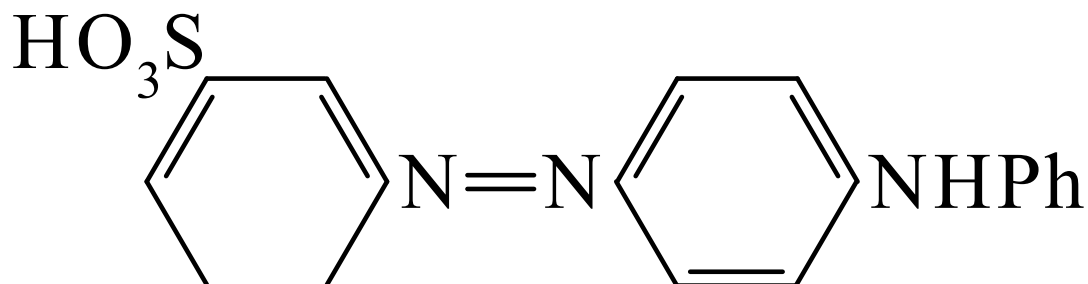




>>Entry Name: Acid yellow 2G

Synonym(s): 3-[[4-(Phenylamino)phenyl]azo]benzenesulfonic acid, 9CI. C.I. Acid yellow 36. Metanil yellow. Victoria yellow. C.I. 13065



Molecular Formula: $C_{18}H_{15}N_3O_3S$

Molecular Weight: 353.401

Accurate Mass: 353.083412

Percentage Composition: C 61.18%; H 4.28%; N 11.89%; O 13.58%; S 9.07%

>>Derivative: Na salt

CAS Registry Number: 587-98-4

Use/Importance: Used in photometric detn. of U(III), Zn, Pb ($\lambda_{\max}$ 410 nm, ϵ 45000); as 0.1% soln. as an indicator (pH range: 1.2-2.3; colour change: red→yellow)

Physical Description: Dark yellow cryst. powder

Solubility: Sol. H_2O , EtOH; mod. sol. Et_2O , Me_2CO , C_6H_6

Aldrich: 20202-9

Fluka: 64010

Rare Chemicals Library: S57040-0

Sigma: M1386

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 978C, (ir)

Sigma-Aldrich Library of Stains, Dyes and Indicators, 446

Welcher, F.S., *Organic Analytical Reagents*, Van Nostrand, 1948, **4**, 516, (synth)

Nemodruk, A.A. *et al.*, *Zh. Anal. Khim.*, 1971, **26**, 2388

Pyatnitskii, I.V. *et al.*, *Zh. Anal. Khim.*, 1983, **38**, 2176, (detn, Pb)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, MDM775