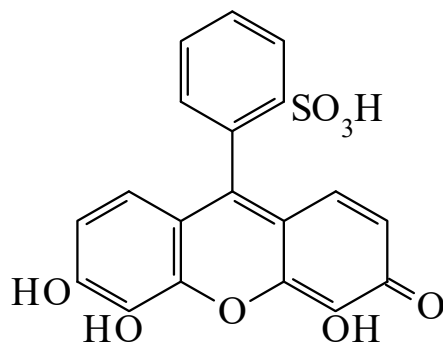




>>Entry Name: Pyrogallol red

Synonym(s): Spiro[3*H*-2,1-benzoxathiole-3,9'-[9*H*]xanthene]-3',4',5',6'-tetrol *S,S*-dioxide, 9Cl. Pyrogallolsulfonephthalein



CAS Registry Number: 32638-88-3

Molecular Formula: C₁₉H₁₂O₈S

Molecular Weight: 400.365

Accurate Mass: 400.02529

Percentage Composition: C 57.00%; H 3.02%; O 31.97%; S 8.01%

Use/Importance: Used as 0.4m*M* aq. soln. for photometric detn. of Ga, In, Fe, rare earths, Tl, Ag, V, W, Mo (λ_{max} 600 nm, ϵ 42000)

Physical Description: Reddish brown powder

Solubility: Sol. EtOH; sl. sol. H₂O

Fluka: 83150

Sigma: P8759

References:

Dagnall, R.M. *et al.*, *Talanta*, 1961, **8**, 711; 1964, **11**, 1533, (*detn*, Ag)

Morgen, E.A. *et al.*, *Zh. Anal. Khim.*, 1975, **30**, 1384, (*detn*, Mo)

Korenaga, T. *et al.*, *Anal. Chim. Acta*, 1979, **104**, 369, (*detn*, Fe)

Krzyzanowska, M. *et al.*, *Chem. Anal. (Warsaw)*, 1979, **24**, 19, (*detn*, In)

Wyganowski, C., *Microchem. J.*, 1981, **26**, 45; 1982, **27**, 13, (*detn*, Ga)

Cheng, K.L. *et al.*, *Handbook of Organic Analytical Reagents*, CRC Press, Boca Raton, 1982, 45, (*use*)