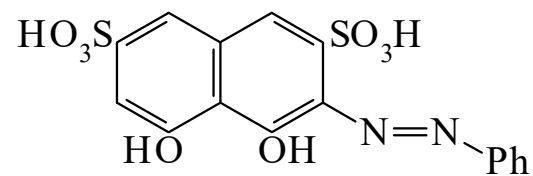




>>Entry Name: Chromotrope 2R

Synonym(s): 4,5-Dihydroxy-3-(phenylazo)-2,7-naphthalenedisulfonic acid, 9Cl. 2-Phenyl-4'-azochromotropic acid. C.I. Acid red 29. C.I. 16570. Acid phloxine GR. Brazilian fast fuchsine G. Hispacid fuchsin G



Molecular Formula: C₁₆H₁₄N₂O₈S₂

Molecular Weight: 426.427

Accurate Mass: 426.019158

Percentage Composition: C 45.07%; H 3.31%; N 6.57%; O 30.02%; S 15.04%

General Statement: Strictly, the name Chromotrope 2R applies to the disodium salt

>>Derivative: Di-Na salt

CAS Registry Number: 4197-07-3

Use/Importance: Used as 1mM aq. soln. in photometric detn. of Mg (ϵ 37000), Ce and Pd. Commercially available

Physical Description: Dark cryst. powder

Solubility: Sol. H₂O

Aldrich: 20208-8

Fluka: 27140

Sigma: C3143

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 982D, (*ir*)

Sigma-Aldrich Library of Stains, Dyes and Indicators, 207

Shibata, S. *et al.*, *Anal. Chim. Acta*, 1969, **44**, 345, (*use, Mg*)

Shah, V.L. *et al.*, *Microchem. J.*, 1970, **15**, 548, (*use, Ce*)

Khalifa, H. *et al.*, *Fresenius' Z. Anal. Chem.*, 1974, **272**, 366, (*use, Pd*)