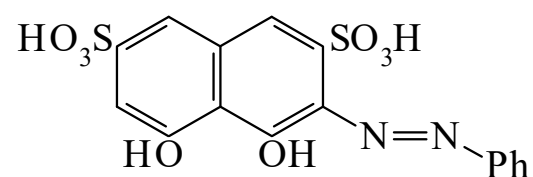




**>>Entry Name: Chromotrope 2R**

**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:** C<sub>16</sub>H<sub>14</sub>N<sub>2</sub>O<sub>8</sub>S<sub>2</sub>

**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 ( $\epsilon$  37000), Ce and Pd. Commercially available

**Physical Description:** Dark cryst. powder

**Solubility:** Sol. H<sub>2</sub>O

**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*)