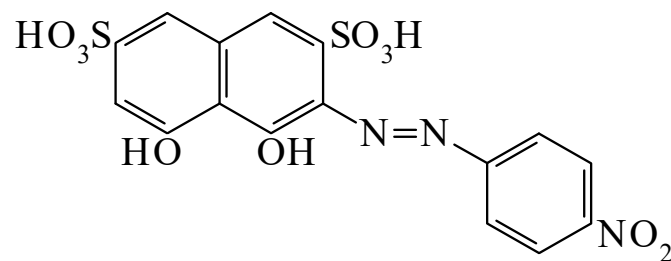




>>Entry Name: **Chromotrope 2B**

Synonym(s): 4,5-Dihydroxy-3-[(4-nitrophenyl)azo]-2,7-naphthalenedisulfonic acid. 2-(4-Nitrophenylazo)chromotropic acid. C.I. 16575. C.I. Acid red 176



Molecular Formula: C₁₆H₁₁N₃O₁₀S₂

Molecular Weight: 469.409

Accurate Mass: 468.988587

Percentage Composition: C 40.94%; H 2.36%; N 8.95%; O 34.08%; S 13.66%

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

>>Derivative: Di-Na salt

CAS Registry Number: 548-80-1

Use/Importance: Used in photometric detn. of Th, Zr, B, Br₂

Physical Description: Dark cryst. powder

Melting Point: Mp 300°

Solubility: Sol. H₂O

Aldrich: 11039-6

Fluka: 27130

Sigma: C1024

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 986A, (*ir*)

Sigma-Aldrich Library of Stains, Dyes and Indicators, 206

Sangal, S.P., *Bull. Chem. Soc. Jpn.*, 1965, **38**, 141, (*detn, Th*)

Elbeih, I.I. *et al.*, *Chemist-Analyst*, 1965, **54**, 8, (*detn, Br₂*)

Tôei, K. *et al.*, *Bull. Chem. Soc. Jpn.*, 1967, **40**, 2085, (*detn, Th, Zr*)