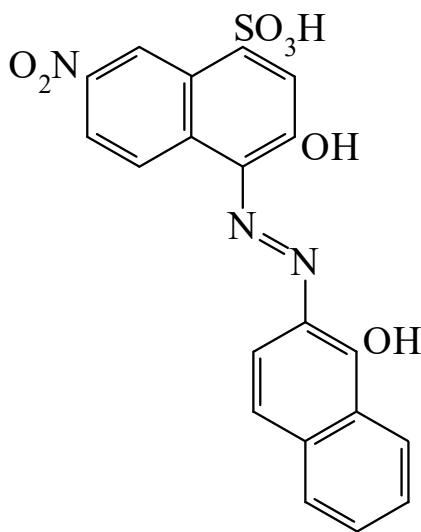




>>Entry Name: Chrome black special

Synonym(s): 3-Hydroxy-4-[(1-hydroxy-2-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonic acid. C.I. Mordant black 11. C.I. 14645. Eriochrome black T. Solochrome black W DFA



CAS Registry Number: 25747-08-4

Molecular Formula: C₂₀H₁₃N₃O₇S

Molecular Weight: 439.405

Accurate Mass: 439.047422

Percentage Composition: C 54.67%; H 2.98%; N 9.56%; O 25.49%; S 7.30%

Physical Description: Dark red cryst. powder

Solubility: Sol. H₂O; mod. sol. EtOH; sl. sol. Me₂CO

>>Derivative: Mono-Na salt

CAS Registry Number: 1787-61-7

Use/Importance: Used as 0.02% MeOH soln. for photometric detn. of Mg ($\lambda_{\max}$ 525 nm, ϵ 18000), Al, Be, Ca, Ga, In, lanthanides, Th, Zn; indicator in EDTA titrations

Physical Description: Greyish black powder

Solubility: Sol. H₂O, EtOH, MeOH

pKa Value: pK_{a2} 6.3; pK_{a3} 11.5

Aldrich: 31891-4

Fluka: 45600

Sigma: E2377

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