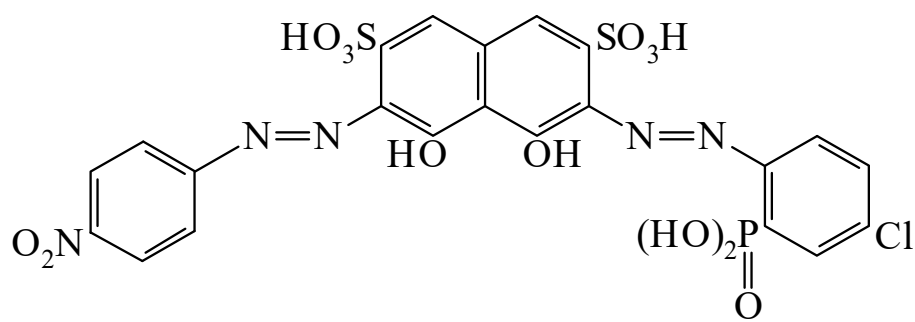




>>Entry Name: Chlorophosphonazo mN

Synonym(s): 3-[(4-Chloro-2-phosphonophenyl)azo]-4,5-dihydroxy-6-[(3-nitrophenyl)azo]-2,7-naphthalenedisulfonic acid, 9Cl



CAS Registry Number: 77350-04-0

Molecular Formula: C₂₂H₁₅ClN₅O₁₃PS₂

Molecular Weight: 687.945

Accurate Mass: 686.953394

Percentage Composition: C 38.41%; H 2.20%; Cl 5.15%; N 10.18%; O 30.23%; P 4.50%; S 9.32%

Use/Importance: Used for photometric detn. of rare earth elements ($\lambda_{\max}$ 670 nm)

Physical Description: Red-orange cryst.

Solubility: Sol. H₂O

References:

Hu, Y. *et al.*, *CA*, 1983, **99**, 32331u, (*detn. rare earths*)