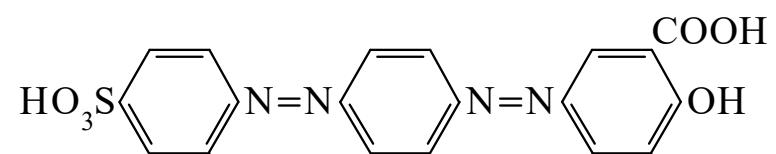




>>Entry Name: Chromorange GR

Synonym(s): 2-Hydroxy-5-[[4-[(4-sulfophenyl)azo]phenyl]azo]benzoic acid. Mordant orange 6. C.I. 26520. 5-[*p*-(*p*-Sulfophenylazo)phenylazo]salicylic acid. Alizarine chrome orange GR. C.I. Mordant orange 44. Eriochrome orange G. Solochrome orange RS. Wool fast orange GA-CF. Many other names



Molecular Formula: C₁₉H₁₄N₄O₆S

Molecular Weight: 426.409

Accurate Mass: 426.063406

Percentage Composition: C 53.52%; H 3.31%; N 13.14%; O 22.51%; S 7.52%

General Statement: The name Chromorange GR strictly refers to the disodium salt

>>Derivative: Di-Na salt

CAS Registry Number: 3564-27-0

Use/Importance: Used as a aq. soln. as acid-base indicator for high pH ranges (pH_{1/2} 11.7; colour change: yellow → red). Commercially available

Physical Description: Orange cryst. (H₂O)

Solubility: Sol. H₂O; sl. sol. EtOH, Me₂CO; insol. C₆H₆

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 979B, (*ir*)

Sigma-Aldrich Library of Stains, Dyes and Indicators, 482

Colour Index, 3rd Edn., 1971, **4**, 4233, (*synth*)

Bishop, E., *Indicators*, Pergamon, Oxford, 1972, (*use*)