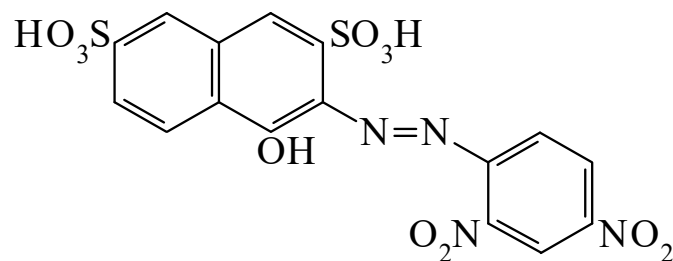




>>Entry Name: 3-[(2,4-Dinitrophenyl)azo]-4-hydroxy-2,7-naphthalenedisulfonic acid, 9CI

Synonym(s): Nitrazine yellow. Nitrazol yellow. C.I. 14890



Molecular Formula: C₁₆H₁₀N₄O₁₁S₂

Molecular Weight: 498.407

Accurate Mass: 497.978751

Percentage Composition: C 38.56%; H 2.02%; N 11.24%; O 35.31%; S 12.87%

General Statement: Acid dye. Strictly, the name Nitrazine yellow refers to the disodium salt

>>Derivative: Di-Na salt

CAS Registry Number: 5423-07-4

Type of Compound Code(s): PM6100 PS7850

Use/Importance: Acid-base indicator (pH range: 6.4-6.8; colour change: yellow → blue). Used for indicator papers (*Delta paper*). Commercially available

Physical Description: Red cryst.

Solubility: Sol. H₂O, EtOH

Other Data: λ_{max} 586 nm

Aldrich: 20018-2

Fluka: 72550

Sigma: N7007

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 985A, (ir)

Sigma-Aldrich Library of Stains, Dyes and Indicators, 521

Colour Index, 3rd Edn., 1971, **4**, 4073, (synth)

Bishop, E., *Indicators*, Pergamon, Oxford, 1972, 88

Sigma-Aldrich Library of Chemical Safety Data, 1988, **2**, 2546A