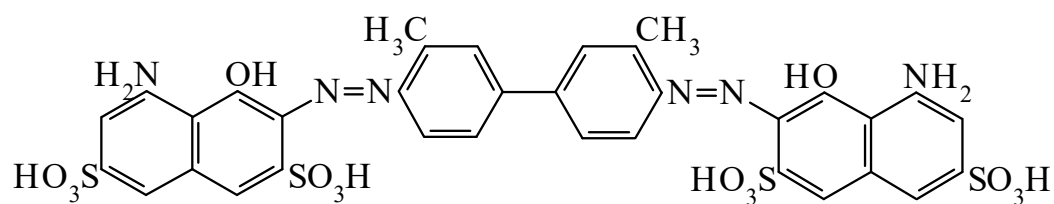




>>Entry Name: Trypan blue

Synonym(s): 3,3'-[(3,3'-Dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[5-amino-4-hydroxy-2,7-naphthalenedisulfonic acid], 9Cl. C.I. Direct blue 14. Niagara blue 3B. C.I. 23850



Molecular Formula: C₃₄H₂₈N₆O₁₄S₄

Molecular Weight: 872.891

Accurate Mass: 872.054634

Percentage Composition: C 46.78%; H 3.23%; N 9.63%; O 25.66%; S 14.69%

>>Derivative: Tetra Na salt

CAS Registry Number: 72-57-1

Use/Importance: Used as 0.05M soln. in 1M HCl for photometric detn. of F⁽⁻⁾ (using insol. Zr-trypan blue complex, AcOH aq.)

Physical Description: Dark blue cryst. powder

Melting Point: Mp 300°

Solubility: Sol. H₂O, acids

Aldrich: 30264-3

Fluka: 93595

Rare Chemicals Library: S41386-0

Sigma: T0887

References:

Sigma-Aldrich Library of Stains, Dyes and Indicators, 721

Bhatt, A. *et al.*, *Microchem. J.*, 1985, **31**, 325, (detn, F⁽⁻⁾)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, CMO250