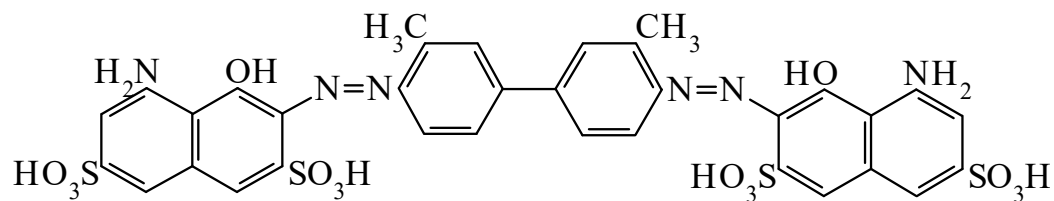




>>Entry Name: Trypan blue

**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:** C<sub>34</sub>H<sub>28</sub>N<sub>6</sub>O<sub>14</sub>S<sub>4</sub>

**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<sup>(-)</sup> (using insol. Zr-trypan blue complex, AcOH aq.)

**Physical Description:** Dark blue cryst. powder

**Melting Point:** Mp 300°

**Solubility:** Sol. H<sub>2</sub>O, 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<sup>(-)</sup>)

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