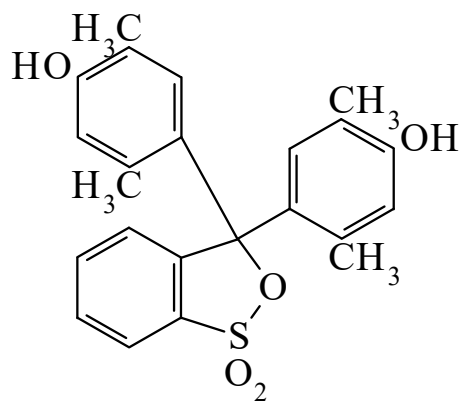




>>Entry Name: Xylenol blue

Synonym(s): 4,4'-(3*H*-2,1-Benzoxathiol-3-ylidene)bis[2,5-dimethylphenol] *S,S*-dioxide, 9Cl. *p*-Xylenolsulfonephthalein



CAS Registry Number: 125-31-5

Molecular Formula: C₂₃H₂₂O₅S

Molecular Weight: 410.49

Accurate Mass: 410.118795

Percentage Composition: C 67.30%; H 5.40%; O 19.49%; S 7.81%

Use/Importance: Used as a soln. in 0.1*M* NaOH as acid-base indicator (pH range: 1.1-2.8, colour change: red → yellow; pH range 8.0-9.6, colour change: yellow → blue); titrimetric detn. of As, Sb

Physical Description: Dark red or brownish black cryst.

Melting Point: Mp 212°

Solubility: Sol. H₂O, EtOH

Aldrich: 20548-6

Fluka: 95610

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1022B, (*ir*)

Sigma-Aldrich Library of Stains, Dyes and Indicators, 737

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

Vytras, K., *Chem. Zvesti*, 1974, **28**, 252, (*props*)

Dragulescu, C. *et al.*, *CA*, 1975, **93**, 201439n, (*detn, As, Sb*)