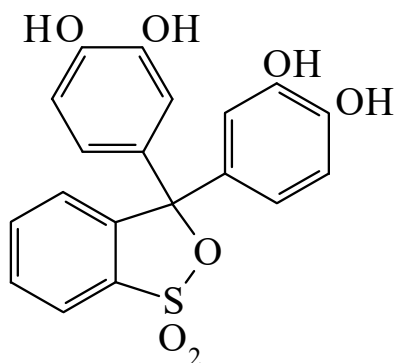




>>Entry Name: Pyrocatechol violet

Synonym(s): 4,4'-(3*H*-2,1-Benzoxathiol-3-ylidene)bis(1,2-benzenediol) *S,S*-dioxide, 9Cl. Catechol sulfonephthalein. Catechol violet



CAS Registry Number: 115-41-3

Molecular Formula: C₁₉H₁₄O₇S

Molecular Weight: 386.381

Accurate Mass: 386.046025

Percentage Composition: C 59.06%; H 3.65%; O 28.99%; S 8.30%

Use/Importance: Used as 0.1% aq. soln. for photometric detn. of Al, Bi, Sb, Cd, Cr, Cu, Ga, In (λ_{max} 630 nm, ϵ 35000), Sc, Sn, N, Ti, Th, V, Zr; indicator in complexometric detn. of Bi, Th, Cu. The boron complex, *Boropyrocatechol*, is used for photometric detn. of Lu

Physical Description: Reddish brown powder

Solubility: Sol. H₂O, EtOH; insol. Et₂O

pKa Value: p*K*_{a3} 7.8; p*K*_{a4} 9.7; p*K*_{a5} 11.7

Aldrich: 10173-7

Fluka: 15920

Sigma: P7884

References:

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