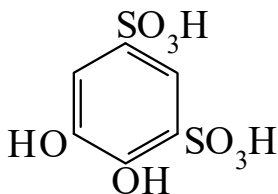




>>Entry Name: 4,5-Dihydroxy-1,3-benzenedisulfonic acid, 9CI

Synonym(s): Pyrocatechol-3,5-disulfonic acid. Tiron



CAS Registry Number: 149-46-2

Molecular Formula: C₆H₆O₈S₂

Molecular Weight: 270.241

Accurate Mass: 269.95041

Percentage Composition: C 26.67%; H 2.24%; O 47.36%; S 23.73%

General Statement: Strictly, the name Tiron applies to the disodium salt

Use/Importance: Used as 0.2M aq. soln. for photometric detn. of Fe, V(IV), Nb, Ti ($\lambda_{\max}$ 390 nm, ϵ 15000); metal indicator for Fe

Physical Description: Needles

Melting Point: Mp 300°

Solubility: Sol. H₂O; sl. sol. EtOH

pKa Value: pK_{a1} 7.66; pK_{a2} 12.6 (20°, 0.1M KCl)

>>Derivative: Di-Na salt

CAS Registry Number: 149-45-1

Physical Description: Cryst.

Solubility: V. sol. H₂O, EtOH

Aldrich: 17255-3

Fluka: 89461

Rare Chemicals Library: S52746-7

Sigma: D7389

References:

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Clark, L.J., *Anal. Chem.*, 1970, **42**, 694, (detn, Ti)

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