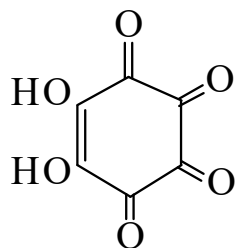




>>Entry Name: 5,6-Dihydroxy-5-cyclohexene-1,2,3,4-tetrone, 9CI

Synonym(s): Dihydroxydiquinone. Rhodizonic acid



CAS Registry Number: 118-76-3

Related CAS Registry Numbers(s): 16833-52-6

Molecular Formula: C₆H₂O₆

Molecular Weight: 170.078

Accurate Mass: 169.98514

Percentage Composition: C 42.37%; H 1.19%; O 56.44%

Physical Description: Deep-orange needles

Melting Point: Mp 155-160°

Other Data: Salt solns. have no carbonyl abs. in IR suggesting a delocalized struct.

Aldrich: 13173-3

Sigma: R6001

>>Derivative: Di-Na salt

CAS Registry Number: 523-21-7

Physical Description: Black-green solid

Melting Point: Mp 300°

Aldrich: R160-9

Fluka: 71940

Sigma: R6126

>>Derivative: Di-K salt

CAS Registry Number: 13021-40-4

Use/Importance: Used as aq. soln. for photometric detn. of Ca ($\lambda_{\max}$ 570 nm, pH =12); indirect detn. of SO₄²⁽⁻⁾; pptn. sepn. of Sr

Physical Description: Dark-purple prisms

Solubility: Fairly sol. H₂O giving deep-yellow soln.

Other Data: Partially dec. on recryst. Solns. rapidly oxidised

Aldrich: 39234-0

Fluka: 60530

Sigma: R6251

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