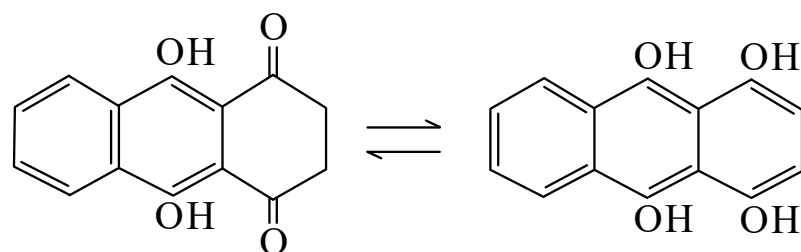




>>Entry Name: 1,4,9,10-Anthracenetetrol

Synonym(s): Leucoquinizarin, 8Cl. 1,4,9,10-Tetrahydroxyanthracene



CAS Registry Number: 476-60-8

Related CAS Registry Numbers(s): 17648-03-2

Molecular Formula: C₁₄H₁₀O₄

Molecular Weight: 242.231

Accurate Mass: 242.05791

Percentage Composition: C 69.42%; H 4.16%; O 26.42%

Use/Importance: Used as 0.05% soln. in EtOH for photometric and fluorimetric detn. of Mg ($\lambda_{\max}$ 562 nm, ϵ 8100, pH 9.5), Be ($\lambda_{\max}$ 438 nm, ϵ 12000, pH 5.4)

Physical Description: Cryst. in 2 forms, one yellow

Melting Point: Mp 155°. Mp 131-136°

Solubility: Sol. EtOH

>>Derivative: 9,10-Di-Ac

Molecular Formula: C₁₈H₁₄O₆

Molecular Weight: 326.305

Accurate Mass: 326.07904

Percentage Composition: C 66.26%; H 4.32%; O 29.42%

Physical Description: Cryst.

Melting Point: Mp 214-215°

References:

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Sterk, H., *Monatsh. Chem.*, 1969, **100**, 916, (*struct*)

Metwally, S.A. *et al.*, *Indian J. Chem., Sect. B*, 1977, **15**, 165, (*ms*)

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Bello Lopez, M.A. *et al.*, *Analyst (London)*, 1986, **111**, 429; 1293, (*detn, Mg, Be*)