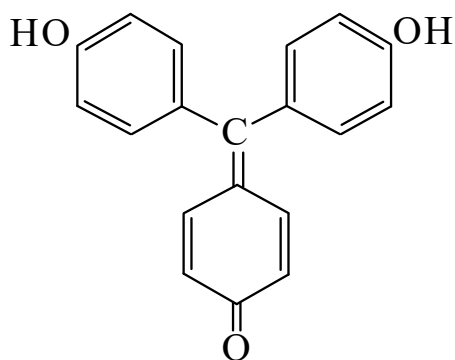




>>Entry Name: Aurin

Synonym(s): 4-[Bis(4-hydroxyphenyl)methylene]-2,5-cyclohexadien-1-one, 9Cl. Corallin. C.I. 43800



CAS Registry Number: 603-45-2

Molecular Formula: C₁₉H₁₄O₃

Molecular Weight: 290.318

Accurate Mass: 290.094295

Percentage Composition: C 78.61%; H 4.86%; O 16.53%

Use/Importance: Dye intermed. Acid-base indicator (pH range 6.9-8.0; colour change brown → red)

Physical Description: Deep-red cryst. with metallic lustre

Solubility: Sol. EtOH (yellow soln.), prac. insol. H₂O, C₆H₆

Other Data: Dec. at 308-310°

Aldrich: 86132-4

Fluka: 83910

Rare Chemicals Library: S51848-4

Sigma: R9502

>>Derivative: Na salt

Synonym(s): Yellow corallin

Physical Description: Yellow solid with green metallic lustre

Solubility: Sol. H₂O (carmine red soln.)

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1028D, (*ir*)

Sigma-Aldrich Library of Stains, Dyes and Indicators, 640

Zulkowsky, K., *Annalen*, 1878, **194**, 109; 122, (*synth*)

Nencki, M. *et al.*, *J. Prakt. Chem.*, 1881, **23**, 549, (*synth*)

Stora, C. *et al.*, *C. R. Hebd. Seances Acad. Sci.*, 1949, **229**, 766, (*struct*)

Bishop, E., *Indicators*, Pergamon, Oxford, 1972, 125, (*use*)