



>>Entry Name: 7,8-Dihydroxy-4-methyl-2*H*-1-benzopyran-2-one, 9CI

Synonym(s): 7,8-Dihydroxy-4-methylcoumarin. 4-Methyldaphnetin

CAS Registry Number: 2107-77-9

Structure by analogy with 3,4-Dihydroxy-5-methyl-2*H*-1-benzopyran-2-one, [CNH00-P](#)

Molecular Formula: C₁₀H₈O₄

Molecular Weight: 192.171

Accurate Mass: 192.04226

Percentage Composition: C 62.50%; H 4.20%; O 33.30%

Use/Importance: Used as a 0.1*M* soln. in EtOH for simultaneous photometric detn. of U (λ_{max} 450 nm, ϵ 2700) and V (λ_{max} 600 nm, ϵ 900); metallochromic indicator in titrimetric detn. of Nb

Physical Description: Cryst.

Melting Point: Mp 232°

Solubility: Sol. common org. solvs.

Rare Chemicals Library: S44860-5

References:

Trivedi, K.N., *J. Indian Chem. Soc.*, 1965, **42**, 273, (*synth*)

Kingo, M., *Bunseki Kagaku (Jpn. Anal.)*, 1971, **20**, 806, (*detn, Nb*)

Masrani, K.V. *et al.*, *J. Appl. Chem. Biotechnol.*, 1974, **24**, 331

Cussans, N.J. *et al.*, *Tetrahedron*, 1975, **31**, 2719

Chauhan, Y.S. *et al.*, *Indian J. Chem., Sect. B*, 1978, **16**, 292, (*synth*)

Sane, R.T. *et al.*, *J. Indian Chem. Soc.*, 1978, **55**, 290, (*detn, U, V*)