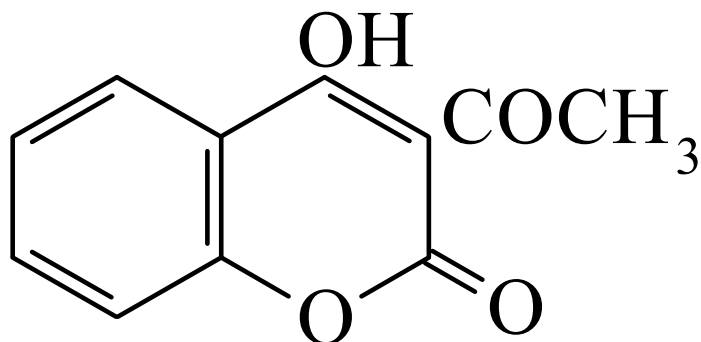




>>Entry Name: 3-Acetyl-4-hydroxy-2H-1-benzopyran-2-one, 9CI

Synonym(s): 3-Acetyl-4-hydroxycoumarin, 8CI



CAS Registry Number: 2555-37-5

Molecular Formula: C₁₁H₈O₄

Molecular Weight: 204.182

Accurate Mass: 204.04226

Percentage Composition: C 64.71%; H 3.95%; O 31.34%

Use/Importance: Used as a soln. in EtOH for gravimetric detn. of Ce, Th, Ti, U(VI), Zr; photometric detn. of Fe(III), U(VI)

Physical Description: Cryst. (EtOH)

Melting Point: Mp 138°

References:

- Bhat, A.N. *et al.*, *J. Inorg. Nucl. Chem.*, 1960, **4**, 136, (detn, U)
Bhat, A.N. *et al.*, *Talanta*, 1960, **4**, 13-16; **5**, 271-275, (detn, Th, U, Fe)
Katyal, M. *et al.*, *Talanta*, 1968, **15**, 1043-1054, (synth, use, pKa)
Klutchko, S. *et al.*, *J.O.C.*, 1974, **39**, 2436-2437, (synth, ir, uv, ms)
Babin, P. *et al.*, *Tetrahedron*, 1981, **37**, 1131-1139, (synth, ir, ms, pmr, cmr)
Traven, V.F. *et al.*, *Can. J. Chem.*, 1997, **75**, 365-376; 377-383, (uv, pmr, cmr)
Jung, J.-C. *et al.*, *Synth. Commun.*, 1999, **29**, 3587-3595, (synth, ir, pmr, cmr)