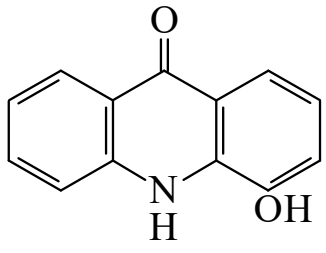
>>**Entry Name: 4-Hydroxyacridone**
Synonym(s): 4-Hydroxy-9(10*H*)-acridinone, 9Cl



CAS Registry Number: 31231-39-7

Molecular Formula: $C_{13}H_9NO_2$
Molecular Weight: 211.22
Accurate Mass: 211.063329
Percentage Composition: C 73.92%; H 4.29%; N 6.63%; O 15.15%
Physical Description: Cryst. (AcOH aq.)
Melting Point: Mp 300 dec.°
Other Data: Green fluor. in H_2SO_4

>>**Derivative:** Me ether
Synonym(s): 4-Methoxyacridone

CAS Registry Number: 35308-00-0
Molecular Formula: $C_{14}H_{11}NO_2$
Molecular Weight: 225.246
Accurate Mass: 225.078979
Percentage Composition: C 74.65%; H 4.92%; N 6.22%; O 14.21%
Physical Description: Yellow cryst. (AcOH aq.)
Melting Point: Mp 295-296°
Aldrich: H3590-0

>>**Derivative:** 4-Et ether
Synonym(s): 4-Ethoxyacridone

CAS Registry Number: 71803-12-8

Molecular Formula: $C_{15}H_{13}NO_2$
Molecular Weight: 239.273
Accurate Mass: 239.094629
Percentage Composition: C 75.30%; H 5.48%; N 5.85%; O 13.37%
Use/Importance: Used as a 1% soln. in EtOH. Fluorescent pH indicator (pH range: 1.2-3.2; colour change; green → blue)
Physical Description: Yellow cryst. (AcOH aq.)
Melting Point: Mp 320 dec.°
Solubility: Sol. EtOH, Me_2CO

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 874D, *(ir)*
Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 750C, *(nmr)*
Jensen, K.A.*, Fresenius' Z. Anal. Chem.*, 1933, **94**, 177, *(use)*
Villemey, L.*, Ann. Chim. (Paris)*, 1950, **5**, 570, *(synth)*
Gurevich, A.I. *et al.*, *CA*, 1961, **55**, 14460, *(struct)*
Lewis, J.R. *et al.*, *Chem. Comm.*, 1970, 1625, *(synth)*