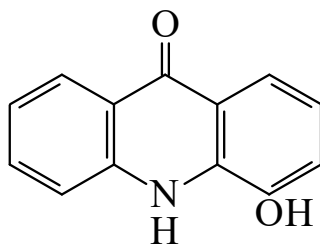




>>Entry Name: 4-Hydroxyacridone

Synonym(s): 4-Hydroxy-9(10*H*)-acridinone, 9CI



CAS Registry Number: 31231-39-7

Molecular Formula: C₁₃H₉NO₂

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 H₂SO₄

>>Derivative: Me ether

Synonym(s): 4-Methoxyacridone

CAS Registry Number: 35308-00-0

Molecular Formula: C₁₄H₁₁NO₂

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: C₁₅H₁₃NO₂

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, Me₂CO

References:

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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*)

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