



>>Entry Name: 5-Hydroxy-1-indanone, 8Cl
Synonym(s): 2,3-Dihydro-5-hydroxy-1*H*-inden-1-one, 9Cl

CAS Registry Number: 3470-49-3

Molecular Formula: C₉H₈O₂
Molecular Weight: 148.161
Accurate Mass: 148.05243
Percentage Composition: C 72.96%; H 5.44%; O 21.60%
Physical Description: Prisms (EtOH aq.)
Melting Point: Mp 185°
pKa Value: pK_a 7.53 (25°, H₂O)

>>Derivative: Oxime

CAS Registry Number: 73045-34-8
Molecular Formula: C₉H₉NO₂
Molecular Weight: 163.176
Accurate Mass: 163.063329
Percentage Composition: C 66.25%; H 5.56%; N 8.58%; O 19.61%
Melting Point: Mp 208-210 dec.°

>>Derivative: Phenylhydrazone

Melting Point: Mp 165-166°

>>Derivative: Semicarbazone

Physical Description: Cryst. (EtOH)
Melting Point: Mp 223°

>>Derivative: Ac

Molecular Formula: C₁₁H₁₀O₃
Molecular Weight: 190.198
Accurate Mass: 190.062995
Percentage Composition: C 69.46%; H 5.30%; O 25.24%
Physical Description: Leaflets (Et₂O/petrol)
Melting Point: Mp 93°

>>Derivative: Me ether
Synonym(s): 5-Methoxy-1-indanone

CAS Registry Number: 5111-70-6
Molecular Formula: C₁₀H₁₀O₂
Molecular Weight: 162.188
Accurate Mass: 162.06808
Percentage Composition: C 74.06%; H 6.21%; O 19.73%
Physical Description: Cryst. (EtOH aq.)
Melting Point: Mp 111°
Aldrich: 18353-9
Fluka: 64996

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 809C, (*nmr*)
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Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1234D, (*ir*)
Johnson, W.S. *et al.*, *J.A.C.S.*, 1944, **66**, 218, (*synth, deriv*)
Sam, J. *et al.*, *J.A.C.S.*, 1960, **82**, 5205, (*synth*)
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