



>>Entry Name: 9-Phenanthrenol, 9Cl

Synonym(s): 9-Phenanthrol, 8Cl. 9-Hydroxyphenanthrene. 9(10*H*)-Phenanthrenone. Phenanthrone

CAS Registry Number: 484-17-3

Molecular Formula: C₁₄H₁₀O

Molecular Weight: 194.232

Accurate Mass: 194.073165

Percentage Composition: C 86.57%; H 5.19%; O 8.24%

Physical Description: Cryst. (petrol or C₆H₆)

Melting Point: Mp 158° (151°)

Boiling Point: Bp_{0.2} 140-145° subl.

Other Data: Oxid. in air

Aldrich: 21128-1

Rare Chemicals Library: S61256-1

>>Derivative: Picrate

Physical Description: Red cryst.

Melting Point: Mp 185°

>>Derivative: Ac

CAS Registry Number: 957-82-4

Molecular Formula: C₁₆H₁₂O₂

Molecular Weight: 236.27

Accurate Mass: 236.08373

Percentage Composition: C 81.34%; H 5.12%; O 13.54%

Physical Description: Cryst. (petrol or EtOH aq.)

Melting Point: Mp 77-78°

>>Derivative: Benzoyl

Molecular Formula: C₂₁H₁₄O₂

Molecular Weight: 298.34

Accurate Mass: 298.09938

Percentage Composition: C 84.54%; H 4.73%; O 10.73%

Melting Point: Mp 99-100°

>>Derivative: Me ether

Synonym(s): 9-Methoxyphenanthrene, 9Cl

CAS Registry Number: 5085-74-5

Molecular Formula: C₁₅H₁₂O

Molecular Weight: 208.259

Accurate Mass: 208.088815

Percentage Composition: C 86.51%; H 5.81%; O 7.68%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 96-97°

References:

- Aldrich Library of FT-IR Spectra, 1st edn.*, 1985, **1**, 1114C, (*ir*)
Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 314B, (*nmr*)
Hunsberger, I.M. *et al.*, *J.A.C.S.*, 1952, **74**, 4839-4845, (*ir*)
Nishimoto, K., *Bull. Chem. Soc. Jpn.*, 1966, **39**, 645-650, (*uv*)
Bacon, R.G.R. *et al.*, *Chem. Ind. (London)*, 1966, 812, (*synth*)
Koichi, S. *et al.*, *Chem. Pharm. Bull.*, 1973, **21**, 2809-2811, (*synth*)
Furusho, Y. *et al.*, *J.C.S. Perkin I*, 1996, 183-190, (*Me ether, synth, pmr*)
Fu, J. *et al.*, *Can. J. Chem.*, 2000, **78**, 905-919, (*synth*)