



>>Entry Name: 9-Chlorophenanthrene, 9Cl

CAS Registry Number: 947-72-8

Structure by analogy with 1-Chlorophenanthrene, [FNB26-E](#)

Molecular Formula: C₁₄H₉Cl

Molecular Weight: 212.678

Accurate Mass: 212.039277

Percentage Composition: C 79.07%; H 4.27%; Cl 16.67%

Physical Description: Needles (AcOH)

Melting Point: Mp 53-53.5°

Boiling Point: Bp₇₃₇ 370°

Solubility: Sol. Et₂O, C₆H₆, CCl₄, CS₂

Other Data: Oxidn. → Phenanthraquinone

>>Derivative: Picrate

Physical Description: Yellow needles

Melting Point: Mp 115°

References:

Sandqvist, H. *et al.*, *Ber.*, 1918, **51**, 1515-1526, (*synth*)

Schultz, J. *et al.*, *J.O.C.*, 1946, **11**, 320-328, (*synth*)

de la Mare, P.B.D. *et al.*, *J.C.S.*, 1961, 5285-5293, (*uv, ir*)

Bartle, K.D. *et al.*, *Spectrochim. Acta A*, 1967, **23**, 1715-1734, (*pmr*)

Muathen, H., *Tetrahedron*, 1996, **52**, 8863-8866, (*synth*)