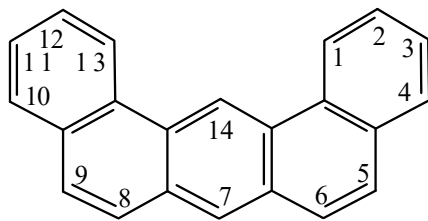




>>Entry Name: Dibenz[*a,j*]anthracene, 9Cl

Synonym(s): 1,2:7,8-Dibenzanthracene



CAS Registry Number: 224-41-9

Molecular Formula: C₂₂H₁₄

Molecular Weight: 278.353

Accurate Mass: 278.10955

Percentage Composition: C 94.93%; H 5.07%

Physical Description: Cryst. (AcOH)

Melting Point: Mp 196°

Solubility: V. spar. sol. EtOH, Et₂O

Other Data: Bluish-green fluor. in soln.

Hazard & Toxicity: Exp. carcinogenic data (weak skin-tumour initiator)

>>Derivative: Picrate

Physical Description: Crimson cryst. (C₆H₆)

Melting Point: Mp 212°

References:

Cook, J.W., *J.C.S.*, 1931, 487; 1932, 1472, (*synth*)

Haigh, C.W., *Mol. Phys.*, 1970, **18**, 737, (*pmr*)

Harvey, R.G. *et al.*, *J.O.C.*, 1982, **47**, 2120; 1991, **56**, 1210, (*synth, pmr*)

IARC Monog., 1983, **32**, 309; *Suppl.* 7, 61, (*rev, tox*)

Diederich, F. *et al.*, *Chem. Ber.*, 1984, **117**, 1255, (*synth, hplc*)

Harvey, R.G., *Polycyclic Aromatic Hydrocarbons: Chemistry and Carcinogenicity*, Cambridge University Press, 1991, 193, (*rev*)

Karcher, W.F., *Dibenzanthracenes and Environmental Carcinogenesis*, Cambridge University Press, Cambridge, 1992, (*book*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DCT600