



>>Entry Name: 5-Methylchrysene, 9Cl

CAS Registry Number: 3697-24-3

Extra CAS Registry Numbers(s): 41637-90-5

Molecular Formula: C₁₉H₁₄

Molecular Weight: 242.32

Accurate Mass: 242.10955

Percentage Composition: C 94.18%; H 5.82%

Source/Synthesis: Found in tobacco smoke

Physical Description: Needles (C₆H₆/EtOH)

Melting Point: Mp 118-119° (116-117°)

Other Data: Brilliant bluish-violet fluor. in uv light

Hazard & Toxicity: Exp. carcinogen and neoplastic agent. Potent tumour initiating activity

References:

Bachmann, W.E. *et al.*, *J.A.C.S.*, 1940, **62**, 2550, (*synth*)

Peters, D., *J.C.S.*, 1957, 646; 4182, (*uv*)

Hecht, S.S. *et al.*, *J. Natl. Cancer Inst.*, 1974, **53**, 1121, (*synth, chromatog, tox*)

Hoffmann, D. *et al.*, *Science (Washington, D.C.)*, 1974, **183**, 215, (*tox*)

Severson, R.F. *et al.*, *Anal. Chem.*, 1976, **48**, 1866, (*glc*)

Nagel, D.L. *et al.*, *J.O.C.*, 1977, **42**, 3626, (*synth*)

IARC Monog., 1983, **32**, 383; *Suppl.* 7, 66, (*rev, tox*)

Kashino, S. *et al.*, *Acta Cryst. C*, 1984, **40**, 536, (*cryst struct*)

Hecht, S. *et al.*, *Polycyclic Aromat. Hydrocarbon Carcinog.: Struct.-Act. Relat.*, (eds. Yang, S.K. *et al.*), CRC Press, Boca Raton, 1988, **7**, 95, (*rev, metab*)

Kumar, S. *et al.*, *J.C.S. Perkin 1*, 1998, 3157-3161, (*synth*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, MIN500