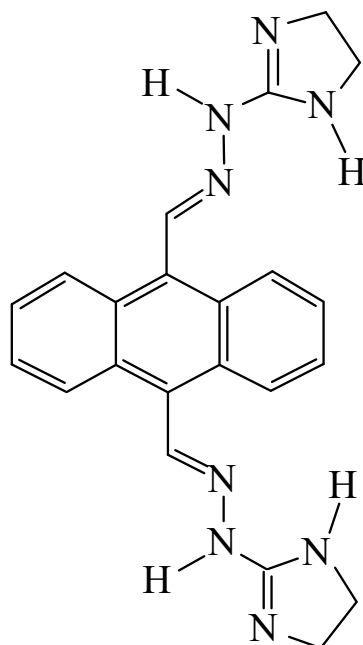




>>Entry Name: **Bisantrene**, INN

Synonym(s): 9,10-Anthracenedicarboxaldehyde bis[4,5-dihydro-1*H*-imidazol-2-yl]hydrazone, 9Cl. Orange crush. ADCA



CAS Registry Number: 78186-34-2

Molecular Formula: C₂₂H₂₂N₈

Molecular Weight: 398.469

Accurate Mass: 398.196742

Percentage Composition: C 66.31%; H 5.56%; N 28.12%

Biological Use/Importance: Antineoplastic agent in clinical use

Development Status: Launched 1990

Other Data: Mode of action unknown, prob. an intercalating agent

>>Derivative: Hydrochloride (1:2)

Synonym(s): **Bisantrene hydrochloride**, USAN. CL 216942. NSC 337766

CAS Registry Number: 71439-68-4

Physical Description: Orange cryst. + ½ H₂O

Melting Point: Mp 288-289°

Hazard & Toxicity: Mutagenic props.

>>Derivative: Hydrochloride, acetate salt

CAS Registry Number: 101218-44-4

Physical Description: Orange cryst. + 3H₂O

References:

- Murdock, K.C. *et al.*, *J. Med. Chem.*, 1982, **25**, 505, (*synth, uv, ms*)
Feigon, J. *et al.*, *J. Med. Chem.*, 1984, **27**, 450, (*pharmacol*)
Peng, Y.-M. *et al.*, *Cancer Chemother. Pharmacol.*, 1985, **14**, 15, (*metab*)
Bates, R.B. *et al.*, *Acta Cryst. C*, 1986, **42**, 186, (*cryst struct*)
Pierpont, C.G. *et al.*, *Acta Cryst. C*, 1986, **42**, 1085, (*cryst struct, complex*)
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 458
Venitt, S. *et al.*, *J. Med. Chem.*, 1998, **41**, 3748-3752, (*pharmacol*)
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, BGW325