



>>Entry Name: Actinomycin C, BAN

Synonym(s): Actinochrysin. Actinomycin KS-2. **Cactinomycin**, INN, USAN. Oncostatin C. Sanamycin. HBF 386. S-67. Antibiotic HBF 386. Antibiotic S-67. NSC 18268

CAS Registry Number: 8052-16-2

General Statement: Mixt. of Actinomycin D [BDR07-R](#), Actinomycin C₂ [CKM13-Z](#) and Actinomycin C₃ [HGR53-L](#); 10%, 45% and 45% respec.

Biological Source: Prod. by *Streptomyces chrysomallus*

Use/Importance: Active against gram-positive bacteria and tumours

Physical Description: Red solid

Development Status: No longer marketed

Melting Point: Mp 252 dec.°

Optical Rotation: $[\alpha]_D^{19} -309$ (c, 0.25 in EtOH)

Solubility: BERDY SOL: Sol. MeOH, C₆H₆; fairly sol. H₂O, Et₂O; poorly sol. hexane

UV: [neutral] $\lambda_{\max}$ 241 (E1%/1cm 270); 438 (E1%/1cm 171); 444 (E1%/1cm 182) (EtOH) (Berdy)

Hazard & Toxicity: LD₅₀ (rat, ivn) 100 mg/kg. Exp. reprod. and teratogenic effects. Mutagenic props. ; BERDY HAZD : LD₅₀ (mus, ivn) 1 mg/kg

Fluka: 1814

Sigma: A4639

References:

Brockmann, H. *et al.*, *Angew. Chem.*, 1955, **67**, 618; 1956, **68**, 70, (*isol, struct*)

Brockmann, H., *Prog. Chem. Org. Nat. Prod.*, 1960, **18**, 1, (*rev*)

Haese, A. *et al.*, *J. Bacteriol.*, 1988, **170**, 1360, (*biosynth*)

Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 474

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, AEA750