



MeOH) (Derep) [base] $\lambda_{\max}$ 237 (ϵ 26700); 250 (ϵ 32000); 287 (ϵ 6000); 362 (ϵ 4850); 560 (ϵ 13900); 597 (ϵ 12900)
(MeOH/NaOH) (Derep) [neutral] $\lambda_{\max}$ 234 (ϵ 40700); 252 (ϵ 27700); 290 (ϵ 9400); 480 (ϵ 13300); 500 (ϵ 13300);
530 (ϵ 7200) (pH 4 MeOH) (Derep) [neutral] $\lambda_{\max}$ 233 (E1%/1cm 658); 253 (E1%/1cm 440); 290 (E1%/1cm 145);
477 (E1%/1cm 225); 495 (E1%/1cm 223); 530 (E1%/1cm 124) (MeOH) (Berdy)

Other Data: Acid hydrol. affords Daunomycin and Adriamycinone

Hazard & Toxicity: Local and systemic adverse effects reported when used therapeutically incl. bone-marrow depression, alopecia, gastrointestinal effects, and dose-related cardiotoxicity. Probable human carcinogen. LD₅₀ (mus, orl) 570 mg/kg. LD₅₀ (mus, ivn) approx. 9 mg/kg. Exp. carcinogenic, reprod. and teratogenic effects

>>Derivative: Hydrochloride

Synonym(s): Doxorubicin hydrochloride, JAN, USAN

CAS Registry Number: 25316-40-9

Physical Description: Orange-red needles

Melting Point: Mp 204-205 dec.°

Optical Rotation: $[\alpha]_D^{20} +248$ (c, 0.1 in MeOH)

Hazard & Toxicity: Systemic adverse effects reported when used therapeutically incl. nephrotoxic, cardiotoxic and pulmonary effects. LD₅₀ (mus, orl) 698 mg/kg. LD₅₀ (mus, ivn) 1.25 mg/kg. Exp. reprod. effects

Aldrich: 86036-0

Fluka: 44584

Sigma: D5642

>>Derivative: *N*-L-Leucyl

>>Derivative: *O*¹⁴-Pentanoyl, *N*-trifluoroacetyl