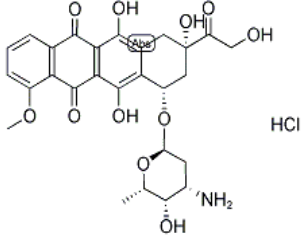


ADRIAMYCIN, HYDROCHLORIDE

Item	Value
PRODUCT NAME	ADRIAMYCIN, HYDROCHLORIDE
PRODUCT IMAGE	 <p>The image shows the chemical structure of Adriamycin Hydrochloride. It consists of a naphthacenedione core with a methoxy group at position 1, a hydroxyacetyl group at position 8, and a 2,3,6-trideoxy-α-L-lyxo-hexopyranosyl group at position 10. The sugar moiety has an amino group at position 3 and a hydroxyl group at position 2. The structure is shown as a hydrochloride salt (HCl).</p>
CAS NUMBER	25316-40-9
WEIGHT	579.98
FORMULA	C ₂₇ H ₃₀ ClNO ₁₁
PROPERTIES	<p>Melting point: : 216\pm2\times10⁰°C (dec.) (lit.) alpha : D₂₀ +248 \pm 2 ° (c = 0.1 in methanol) storage temp. : 2-8$\text{\textcircled{C}}$ solubility : H₂O: 10\pm160mg/mL, clear, red-orange pKa : pKa 8.25 \pm 0.60 (Uncertain) 8.43 \pm 0.70 (Uncertain) 11.9 \pm 0.4 (Uncertain) 12.95 \pm 0.1 (Uncertain) 13.8 \pm 0.70 (Uncertain) form : solid color : orange to dark red Water Solubility : Soluble in water. λ_{max} : 497nm(H₂O) (lit.) Merck : 14,3439 BRN : 4229251 InChIKey : MWWSFMDVAYGXBV-RUELKSSGSA-N CAS DataBase Reference : 25316-40-9(CAS DataBase Reference) EPA Substance Registry System : 5,12-Naphthacenedione, 10-[(3-amino-2,3,6-trideoxy-α-L-lyxo-hexopyranosyl) oxy]-7,8,9,10-tetrahydro- 6,8,11-trihydroxy-8-(hydroxyacetyl)- 1-methoxy-, hydrochloride, (8S,10S)-(25316-40-9)</p>
SAFETY	<p>Hazard Codes:T,T+,Xi Risk Statements:45-22-40-26/27/28-36/38 Safety Statements:53-45-36/37/39-22-7/9 WGK Germany:3 RTECS:Q19295900 F:10-21 HS Code:29419090 Toxicity:LD50 i.v. in mice: 21.1 mg/kg (Bertazzoli, 1970)</p>