

4-Epichlortetracycline Hydrochloride

PRODUCT DATA SHEET

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Product Name:	4-Epichlortetracycline Hydrochloride
Product Number:	E061
CAS Number:	101342-45-4
Molecular Formula:	$C_{22}H_{24}Cl_2N_2O_8$
Molecular Weight:	515.4
Appearance:	Yellow solid
Storage Conditions:	-20°C
Description:	<p>Epichlortetracycline is a degradation product of chlortetracycline formed by acid-catalysed isomerisation of the dimethylamino group at C4. Epichlortetracycline exhibits little antibiotic activity but its abundance is indicative of poor storage and handling of chlortetracycline.</p> <p>Epichlortetracycline is soluble in ethanol, methanol, DMF or DMSO. Good water solubility.</p>
References:	<p>Quantitative analysis of chlortetracycline and related substances by high-performance liquid chromatography. Kahn N.H. et al. J. Pharm. Biomed. Anal. 1989, 7, 339.</p> <p>Separation of keto-enol tautomers of chlortetracycline and 4-epichlortetracycline by liquid chromatography on poly(styrene-divinylbenzene)copolymer. Naidong W. J. Pharm Biomed Anal. 1990, 8, 881.</p>