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Product Datasheet

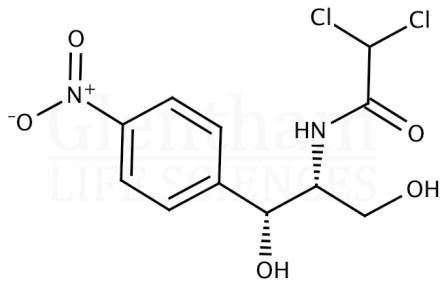
GA0258 - Chloramphenicol

Product Details

Product Name	Chloramphenicol
Glentham Code	GA0258
CAS Number	56-75-7
EINECS	200-287-4
Numéro MDL	MFCD00078159
PubChem SID	310269610
Related Categories	APIs, Antibiotics, Biochemicals, Raw Materials (IVD), Reagents for Cell Culture, Cytotoxins, Antimicrobials

Structure

Molecular Weight	:	323.14
Molecular Formula	:	$C_{11}H_{12}Cl_2N_2O_5$



Storage

Recommended storage temperature: +4°C.

Hazards and Transport

Not classified as dangerous for transport.

CLP Classification	Carc. 1B, STOT RE 2, Repr. 2, STOT RE 1, Muta. 1B
Signal Word	Danger
Hazard Codes	H350, H373, H361, H372, H340
Precautionary Codes	P281, P308+P313, P260, P270
Pictograms	

Glentham Product Specification

Physical Description	:	White to light-yellow crystalline powder
Solubility (5% in ethanol)	:	Clear, colourless to light-yellow solution
Specific Optical Rotation ([α]20/D)	:	+17.5 - +21.0 ° (c=5, ethanol)
Melting Point	:	149.0 - 153.0 °C
Chloride (Cl)	:	≤ 0.01%
Loss on Drying	:	≤ 0.5%
Sulphated Ash	:	≤ 0.1%
Assay	:	98.5 - 101.5 % (dried basis)
Version	:	v1.2

About Chloramphenicol

Chloramphenicol is a broad-spectrum synthetic antibiotic originally isolated from Streptomyces venezuelae. It is effective against gram-positive and gram-negative bacteria. Chloramphenicol acts as a bacteriostatic agent by binding reversibly to the 50S ribosomal subunit, interfering with peptide synthesis. It has applications in antibiotic resistance gene testing, as a selection agent in bacterial cell culture, and as a substrate in the CAT assay.