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Product Datasheet

GP6451 - Chloramphenicol, Ph. Eur. grade

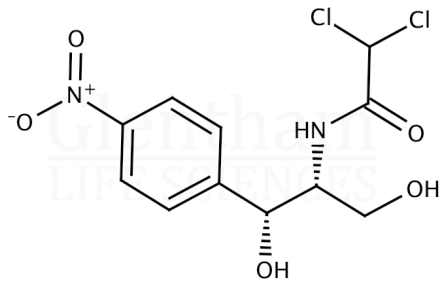
Product Details

Product Name	Chloramphenicol, Ph. Eur. grade
Glentham Code	GP6451
CAS Number	56-75-7
EINECS	200-287-4
MDL Number	MFCD00078159
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. 2, Eye Dam. 1, Repr. 2
Signal Word	Danger
Hazard Codes	H351, H318, H361fd
Precautionary Codes	P280, P305+P351+P338, P308+P313
Pictograms	

Glentham Product Specification

Physical Description	:	A white, greyish-white or yellowish-white, fine, crystalline powder or crystals
Melting Point	:	149.0 - 153.0 °C
Identification (IR)	:	To conform to standard
Acidity or Alkalinity	:	≤ 0.1ml (of 0.02M HCl or 0.02M NaOH)
Specific Optical Rotation ([α]20/D)	:	+18.5 - +20.5 ° (c=6, ethanol)
Related Substances (TLC)	:	≤ 0.5%
Chlorides	:	≤ 100ppm
Loss on Drying	:	≤ 0.5% (105°C)
Sulphated Ash	:	≤ 0.1%
Assay (dried basis)	:	98.0 - 102.0 %
Pharmacopoeia Specification(s)	:	Ph. Eur.
Version	:	v1.1

About Chloramphenicol, Ph. Eur. grade

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.