

## Product Datasheet

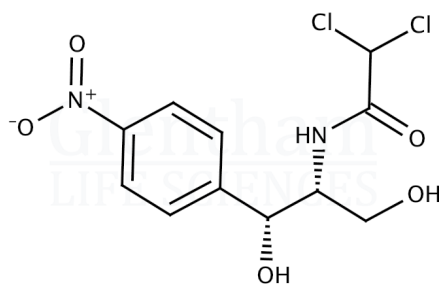
### GP6451 - Chloramphenicol, Ph. Eur. grade

#### Product Details

Product Name	Chloramphenicol, Ph. Eur. grade
Glenthams Code	GP6451
CAS Number	56-75-7
EINECS	200-287-4
Numéro MDL	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	

#### Glenthams 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] <sub>20/D</sub> )	: +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.

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