

## Product Datasheet

### GA0505 - Chloramphenicol, USP grade

Pictograms

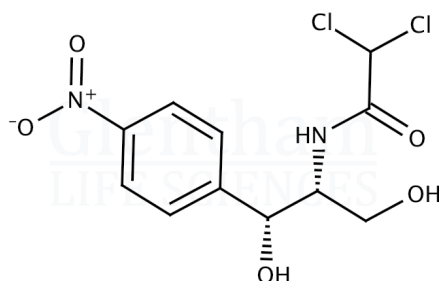


#### Product Details

Product Name	Chloramphenicol, USP grade
Glentham Code	GA0505
CAS Number	56-75-7
EINECS	200-287-4

#### 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

#### Glentham Product Specification

Physical Description	: White to light-yellow crystalline powder
Identification	: A, B according to USP
Melting Point	: 149 - 153 °C
Specific Optical Rotation	: +17.0 - +20.0 ° (c=5, ethanol)
Crystallinity	: According to USP
pH (2.5% in water)	: 4.5 - 7.5
Organic Impurities	: ≤ 1.0%
Assay	: 97.0 - 103.0 %
Pharmacopoeia Specification(s)	: USP
Version	: v1.0

#### About Chloramphenicol, USP 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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