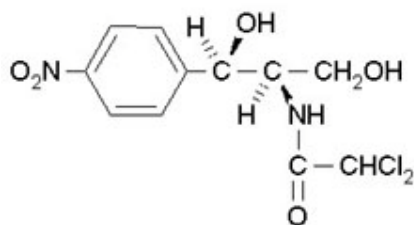


### Product Information Sheet

C252



## Chloramphenicol

Synonym: [R-(R\*,R\*)]-2,2-Dichloro-N-[2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]acetamide, Chloromycetin, CAP

CAS: 56-75-7

Formula: C<sub>11</sub>H<sub>12</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>5</sub>

Molecular Wt: 323.13

### Properties

Form: Powder

Appearance: Off-white to Yellow

Application: Antibiotic

Solubility: Soluble in water at up to 2.5 mg/mL per the Merck Index. More highly soluble in ethanol. Consult the certificates of analysis for lot-specific solubility information.

Typical Working Concentration: Varies by application, should be determined by end user.

Storage Temp: Room Temperature

Storage Temp of Stock Solution: Store at 2-6°C for 30 days. Protect from light.

Other Notes: Derived from *Streptomyces venezuelae*. Plant Tissue Culture Tested

### Application Notes

Chloramphenicol is derived from *Streptomyces Venezuelae* and has a broad spectrum of activity. It is often used for bacterial selection in molecular biology. Chloramphenicol is effective against gram-positive and gram-negative bacteria. It functions by binding to the 50S ribosomal unit to prevent aminoacyl tRNA from binding to the ribosome which prevents elongation of protein chain.

### References

Merck 13, 2087

Sweetman SC (ed), *Martindale: The Complete Drug Reference* 35. China: Pharmaceutical Press, 2007.

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