

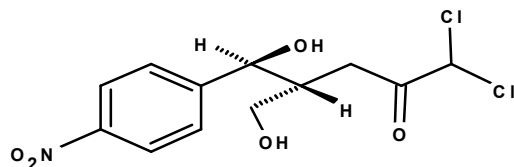
## Product Information

### Chloramphenicol Sigma Reference Standard

Product Number **C6455**  
 Lot Number 086K8803  
 Storage Temperature 2–8 °C

CAS RN 56-75-7

Synonyms: *D-threo*-(–)-2,2-Dichloro-*N*-[β-hydroxy-*α*-(hydroxymethyl)-*p*-nitrophenethyl]acetamide;  
 Acetamide, 2,2-dichloro-*N*-[2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]-, [*R*-(*R*\*,*R*\*)]-



### Product Description

Molecular Formula: C<sub>11</sub>H<sub>12</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>5</sub>  
 Molecular Weight: 323.13

This product meets USP specifications (Current through USP 29, 2nd Supplement) and is traceable to USP Reference Standard lot N1C074.

### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

### Preparation Instructions

Do not dry before using.

### Storage/Stability

Store the product at 2–8 °C. Keep container tightly closed. Store in a cold dry place.

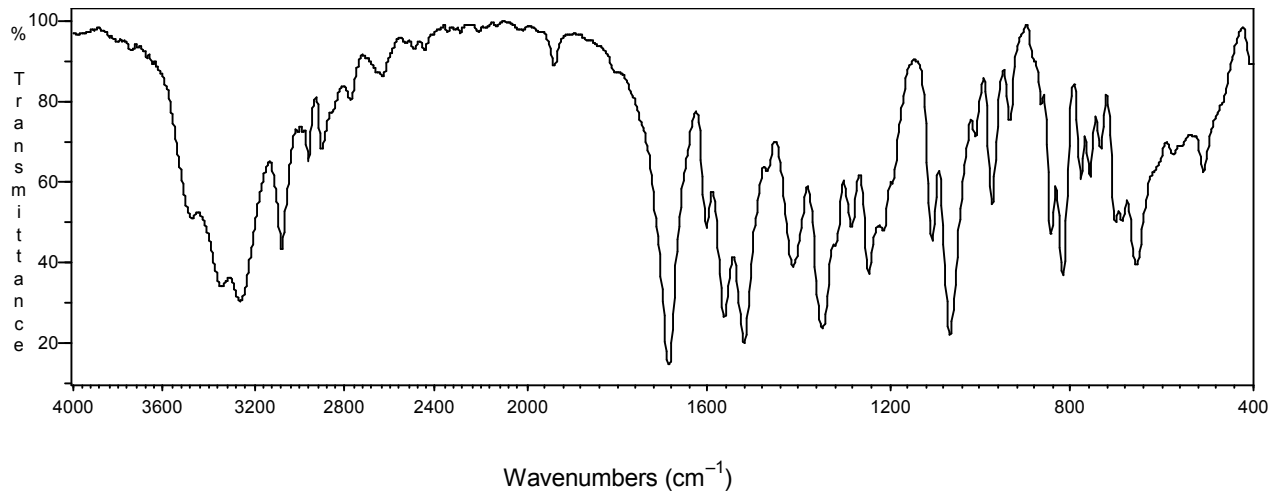
CH,PS,MAM 10/06-1

Test	USP 29 Specifications	Result Sigma R.S. Lot 086K8803
Infrared absorption spectrum KBr dispersion <197K>	compares to standard	conforms to USP RS lot N1C074
Identification B high pressure liquid chromatography <621>	retention time of the major peak of the chromatogram in the <i>Assay preparation</i> corresponds to the major peak in the <i>Standard preparation</i> as obtained in the <i>Assay</i>	corresponds
Melting range <741>	between 149 – 153 °C	149.5 – 151.5 °C
Specific rotation <781S> 50 mg, undried, per mL, in dehydrated alcohol	between +17.0° and +20.0°	+19.81°
Crystallinity <695>	meets requirements	passes
pH <791>	between 4.5 and 7.5, in an aqueous suspension containing 25 mg	6.29
Chromatographic purity	no impurity greater than 1% and the sum of all impurities does not exceed 2%	passes
Assay high performance liquid chromatography <621>	not less than 97.0 percent and not more than 103.0. percent	97.7%

See reverse side for IR spectrum of Sigma Reference Standard.

INFRARED SPECTRUM

KBr dispersion



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