

Product Information

sigma-aldrich.com

3050 Spruce Street, Saint Louis, MO 63103 USA
Tel: (800) 521-8956 (314) 771-5765 Fax: (800) 325-5052 (314) 771-5757
email: techservice@sial.com sigma-aldrich.com

Chloramphenicol Sigma Reference Standard

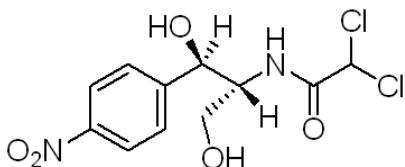
Catalog Number **C6455**

Lot Number 067K5014

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: C₁₁H₁₂Cl₂N₂O₅
Molecular Weight: 323.13

This product meets USP specifications (Current through USP 30, 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.

KSP,MAM 11/07-1

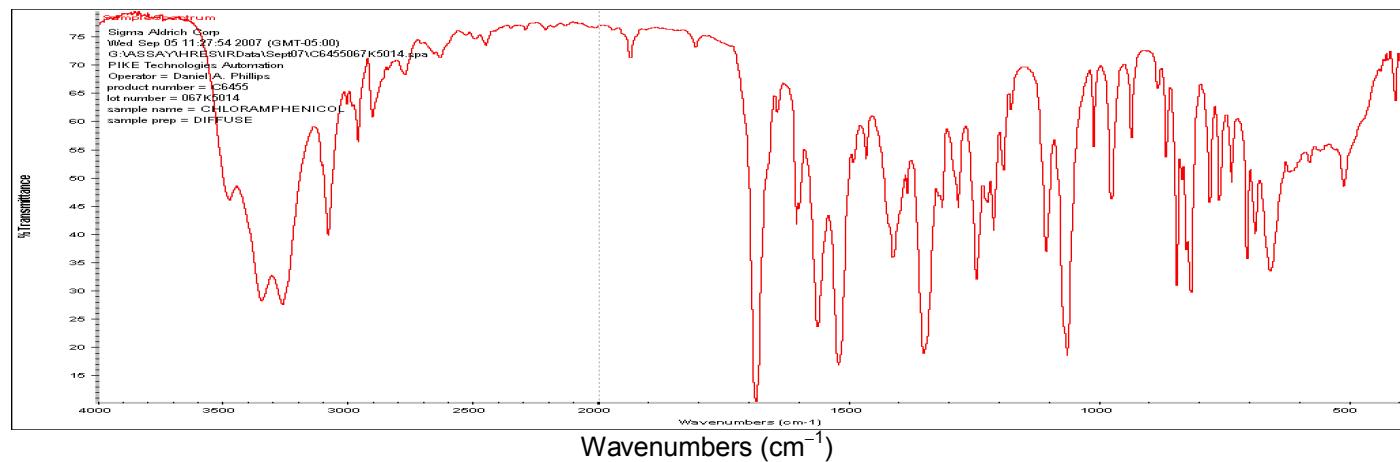
TEST	USP 30 SPECIFICATIONS	Result Sigma Reference Standard Lot 067K5014
Infrared absorption spectrum KBr dispersion <197K>	compares to standard	Conforms to USP Standard Lot N1C074
Identification test B – high pressure liquid chromatography <621>	retention time of the major peak of the chromatogram in 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, $[\alpha]_D^{25}$ 50 mg, undried, per ml solution in dehydrated alcohol <781S>	between +17.0° and +20.0°	+19.82°
Crystallinity <695>	meets the requirements	passes
pH <791>	between 4.5 and 7.5, in an aqueous suspension containing 25 mg	6.43
Chromatographic purity	no impurity greater than 1% and the sum of all impurities does not exceed 2%	passes
Assay – high pressure liquid chromatography <621>	not less than 97.0% and not more than 103.0%	99.1%

See reverse side for IR spectrum of Sigma Reference Standard.

SIGMA-ALDRICH™

INFRARED SPECTRUM

KBr dispersion



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