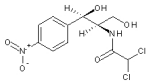

Formula: C11H12Cl2N2O5

MW: 323.13

CAS: 56-75-7

TNP NUMBER: TNP00440

MDL NUMBER: MFCD00599432

IUPAC: N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]-2,2-dichloroace tamide

Smiles: c1(ccc(cc1)[C@H]([C@@H](CO)(NC(=O)C(Cl)Cl))(O))[N+]([O-])=O

THERAPEUTIC CATEGORY: Antibacterial, Antirickettsial

ACCEPTORS: 5

DONORS: 3

ROTATION BONDS: 4

N+O: 7

Chiral Centers: 2

LogP: 1.47

LogS: -3.4

LIPINSKI: 4

Synonyms:
,[theta-(theta,theta)]-;[R-(R*,R*)]-2,2-dichloro-N-[2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]ethanamide;2,2-dichloro-n-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-acetamid;2,2-dichloro-N-[2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]-,[R-(R*,R*)]-Acetamide;2,2-dichloro-n-[2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]-acetamid;Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitrophenethyl);Acetamide, 2,2-dichloro-N-[2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]-, [R-(R*,R*)]-;Acetamide, 2,2-dichloro-N-[beta-hydroxy-alpha-(hydroxymethyl)-p-nitrophenethyl]-, D-threo-(-)-

CAS:56-75-7

MF:C11H12Cl2N2O5

MW:323.13

EINECS:200-287-4

Product Categories:Active Pharmaceutical Ingredients;Antibiotics for Research and Experimental Use;Biochemistry;Others (Antibiotics for Research and Experimental Use);Antibiotic Explorer;Amines;Aromatics;Intermediates & Fine Chemicals;Pharmaceuticals;API Chloramphenicol

Chemical Properties: mp 148-150 C(lit.) alpha 19.5 (c=6, EtOH) refractive index 20 (C=5, EtOH) storage temp. 2-8C form powder color white Water Solubility 2.5 g/L (25 C) Merck 14,2077 BRN 2225532

CAS DataBase Reference: 56-75-7(

CAS DataBase Reference:) NIST Chemistry ReferenceChloramphenicol(56-75-7) EPA Substance Registry SystemAcetamide, 2,2-dichloro-N-[(1R,2R)-2- hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]-(56-75-7) T Risk Statements 45 Safety Statements 53-45 RIDADR 2811 WGK Germany 3 RTECS AB6825000 F 3-10 Hazardous Substances Data56-75-7(Hazardous Substances Data) Chloromycetin Chloramphenicol

Usage And Synthesis:

Chemical Properties: White to grey-white crystalline powder UsageBroad spectrum antibiotic obtained from cultures of the soil bacterium Streptomyces venezuelae. It has a broad spectrum of activity against Gram-positive and gram-negative bacteria. Antibacterial; antirickettsial Chloramphenicol