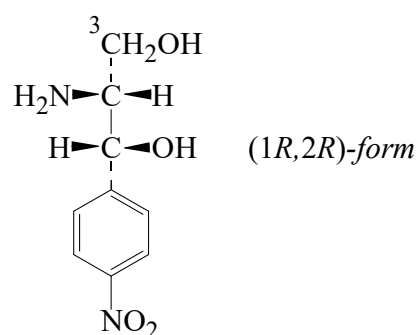




>>Entry Name: 2-Amino-1-(4-nitrophenyl)-1,3-propanediol



Related CAS Registry Numbers(s): 2964-04-7

Molecular Formula: C₉H₁₂N₂O₄

Molecular Weight: 212.205

Accurate Mass: 212.079708

Percentage Composition: C 50.94%; H 5.70%; N 13.20%; O 30.16%

>>Variant: (1R,2R)-form

Synonym(s): Chloramphenicol base

CAS Registry Number: 119-62-0

Extra CAS Registry Numbers(s): 716-61-0

Molecular Formula: C₉H₁₂N₂O₄

Molecular Weight: 212.205

Accurate Mass: 212.079708

Percentage Composition: C 50.94%; H 5.70%; N 13.20%; O 30.16%

Use/Importance: Resolving agent for carboxylic acids

Physical Description: Cryst. (H₂O)

Melting Point: Mp 162-163°

Optical Rotation: [α]_D²⁵ -23.1 (c, 1.58 in MeOH)

>>Derivative: N-Ac

Synonym(s): Corynecin I. Dechlorochloramphenicol. Didechlorochloramphenicol. Bisdechlorochloramphenicol

CAS Registry Number: 4423-58-9

Extra CAS Registry Numbers(s): 15376-53-1 19934-66-8

Molecular Formula: C₁₁H₁₄N₂O₅

Molecular Weight: 254.242

Accurate Mass: 254.090273

Percentage Composition: C 51.97%; H 5.55%; N 11.02%; O 31.46%

Biological Source: Prod. by *Corynebacterium hydrocarboclastus*, *Streptomyces* sp. and *Nocardia paraffinica*

Use/Importance: Active against gram-positive and -negative bacteria

Physical Description: Needles (EtOAc/petrol)

Melting Point: Mp 133-134° (125-126°)

Optical Rotation: [α]_D -33 (c, 1 in EtOAc)

>>Derivative: N,O³-Di-Ac

Synonym(s): Corynecin IV

CAS Registry Number: 40958-11-0

Molecular Formula: C₁₃H₁₆N₂O₆

Molecular Weight: 296.279

Accurate Mass: 296.100838

Percentage Composition: C 52.70%; H 5.44%; N 9.46%; O 32.40%

Biological Source: Isol. from *Corynebacterium hydrocarboclastus*

Use/Importance: Active against gram-positive and -negative bacteria

Physical Description: Needles (Et₂O/petrol)

Melting Point: Mp 134-135°

Optical Rotation: [α]_D +20.6 (c, 0.6 in MeOH)

Solubility: BERDY SOL: Sol. MeOH, Et₂O; poorly sol. H₂O