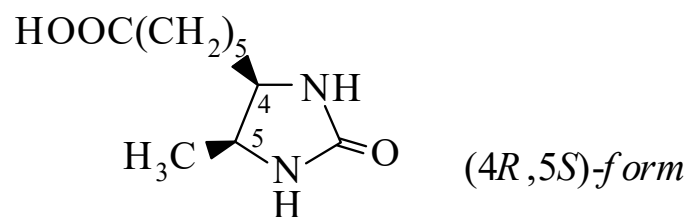




>>Entry Name: 5-Methyl-2-oxo-4-imidazolidinehexanoic acid, 8Cl

Synonym(s): 7,8-Ureylenenonanoic acid. Desthiobiotin. Dethiobiotin



CAS Registry Number: 15720-25-9

Molecular Formula: C₁₀H₁₈N₂O₃

Molecular Weight: 214.264

Accurate Mass: 214.131743

Percentage Composition: C 56.06%; H 8.47%; N 13.07%; O 22.40%

>>Variant: (4*R*,5*S*)-form

Synonym(s): (+)-*cis*-form

CAS Registry Number: 533-48-2

Molecular Formula: C₁₀H₁₈N₂O₃

Molecular Weight: 214.264

Accurate Mass: 214.131743

Percentage Composition: C 56.06%; H 8.47%; N 13.07%; O 22.40%

Biological Source: Prod. by various microorganisms, e.g. *Penicillium chrysogenum*, *Corynebacterium xerosis* and *Phycomyces blakesleeanus*

Use/Importance: Intermed. in biotin biosynth.

Physical Description: Cryst.

Melting Point: Mp 160-162°

Optical Rotation: $[\alpha]_D^{17} +10.4$ (c, 0.57 in EtOH)

>>Derivative: Me ester

CAS Registry Number: 6020-51-5

Physical Description: Cryst.

Melting Point: Mp 69-70°

Optical Rotation: $[\alpha]_D^{23} +2.6$ (c, 2 in CHCl₃)

>>Variant: (4*RS*,5*SR*)-form

Synonym(s): (±)-*cis*-form

CAS Registry Number: 636-20-4

Molecular Formula: C₁₀H₁₈N₂O₃

Molecular Weight: 214.264

Accurate Mass: 214.131743

Percentage Composition: C 56.06%; H 8.47%; N 13.07%; O 22.40%

Physical Description: Cryst.

Melting Point: Mp 162-163°

Sigma: D4251

>>Derivative: Me ester

Physical Description: Cryst.

Melting Point: Mp 72°

Boiling Point: Bp_{0.5} 170°

>>Variant: (4*RS*,5*RS*)-form

Synonym(s): (±)-*trans*-form

CAS Registry Number: 34879-36-2

Molecular Formula: C₁₀H₁₈N₂O₃

Molecular Weight: 214.264

Accurate Mass: 214.131743

Percentage Composition: C 56.06%; H 8.47%; N 13.07%; O 22.40%

Physical Description: Cryst.

Melting Point: Mp 156°

References: