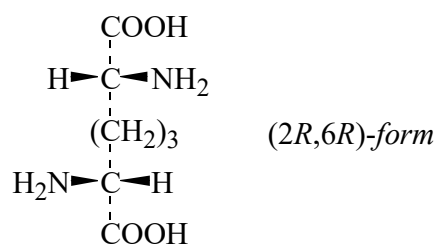




>>Entry Name: 2,6-Diaminoheptanedioic acid, 9CI

Synonym(s): 2,6-Diaminopimelic acid



CAS Registry Number: 583-93-7

Related CAS Registry Numbers(s): 2577-62-0

Molecular Formula:  $\text{C}_7\text{H}_{14}\text{N}_2\text{O}_4$

Molecular Weight: 190.199

Accurate Mass: 190.095358

Percentage Composition: C 44.20%; H 7.42%; N 14.73%; O 33.65%

Biological Source: The *meso*-form and occasionally the chiral isomers are constituents of the polymeric peptidoglycans present in the cell walls of algae and all bacteria, except Halobacteria

Aldrich: 27147-0

Fluka: 33240

>>Variant: (2R,6R)-form

Synonym(s): D,D-form

CAS Registry Number: 17121-19-6

Molecular Formula:  $\text{C}_7\text{H}_{14}\text{N}_2\text{O}_4$

Molecular Weight: 190.199

Accurate Mass: 190.095358

Percentage Composition: C 44.20%; H 7.42%; N 14.73%; O 33.65%

Melting Point: Mp 309-310°

Optical Rotation:  $[\alpha]_{\text{D}}^{16} -30.4$  (6M HCl)

>>Derivative: Hydrochloride

Melting Point: Mp 288°

>>Derivative: *N,N'*-Dibenzoyl, dianilide

Molecular Formula:  $\text{C}_{33}\text{H}_{32}\text{N}_4\text{O}_4$

Molecular Weight: 548.64

Percentage Composition: C 72.24%; H 5.88%; N 10.21%; O 11.66%

Melting Point: Mp 307 dec.°

>>Variant: (2S,6S)-form

Synonym(s): L,L-form

CAS Registry Number: 14289-34-0

Molecular Formula:  $\text{C}_7\text{H}_{14}\text{N}_2\text{O}_4$

Molecular Weight: 190.199

Accurate Mass: 190.095358

Percentage Composition: C 44.20%; H 7.42%; N 14.73%; O 33.65%

Melting Point: Mp 310-312°

Optical Rotation:  $[\alpha]_{\text{D}} +44$  (c, 0.96 in 1M HCl)

>>Derivative: Hydrochloride

Melting Point: Mp 288°

>>Derivative: *N,N'*-Dibenzoyl, dianilide

Molecular Formula:  $\text{C}_{33}\text{H}_{32}\text{N}_4\text{O}_4$

Molecular Weight: 548.64

Accurate Mass: 548.242356

Percentage Composition: C 72.24%; H 5.88%; N 10.21%; O 11.66%

Melting Point: Mp 307 dec.°