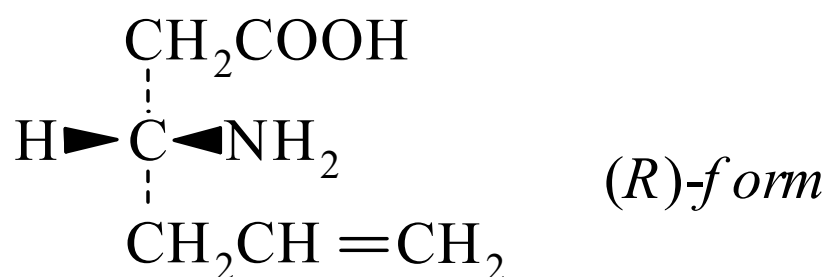




>>Entry Name: 3-Amino-5-hexenoic acid, 9CI



CAS Registry Number: 87255-31-0

Related CAS Registry Numbers(s): 161022-72-6

Molecular Formula: C₆H₁₁NO₂

Molecular Weight: 129.158

Accurate Mass: 129.078979

Percentage Composition: C 55.80%; H 8.58%; N 10.84%; O 24.77%

Physical Description: Intermediate in carbapenem synth.

>>Variant: (R)-form

CAS Registry Number: 82448-92-8

Molecular Formula: C₆H₁₁NO₂

Molecular Weight: 129.158

Accurate Mass: 129.078979

Percentage Composition: C 55.80%; H 8.58%; N 10.84%; O 24.77%

>>Derivative: β-Lactam

Synonym(s): 4-(2-Propenyl)-2-azetidinone, 9CI. 4-Allyl-2-azetidinone

CAS Registry Number: 82468-77-7

Molecular Formula: C₆H₉NO

Molecular Weight: 111.143

Accurate Mass: 111.068414

Percentage Composition: C 64.84%; H 8.16%; N 12.60%; O 14.40%

Optical Rotation: [α]_D −3.41 (c, 8.41 in CHCl₃)

>>Variant: (±)-form

Molecular Formula: C₆H₁₁NO₂

Molecular Weight: 129.158

Accurate Mass: 129.078979

Percentage Composition: C 55.80%; H 8.58%; N 10.84%; O 24.77%

>>Derivative: β-Lactam

CAS Registry Number: 80282-30-0

Molecular Formula: C₆H₉NO

Molecular Weight: 111.143

Accurate Mass: 111.068414

Percentage Composition: C 64.84%; H 8.16%; N 12.60%; O 14.40%

Boiling Point: Bp_{0.45} 160°

References:

Takano, S. *et al.*, *Chem. Lett.*, 1982, 631-634, (*synth*)

Hua, D.H. *et al.*, *Tet. Lett.*, 1985, **26**, 547-550, (*lactam*)

Crombie, L. *et al.*, *J.C.S. Perkin 1*, 1993, 2055-2068, (*lactone, synth, ir, pmr, cmr*)

Kang, S.-K. *et al.*, *Synlett*, 1999, 447-449, (*lactone, synth, ir, pmr*)