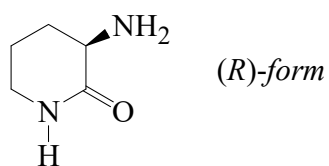




>>Entry Name: 3-Amino-2-piperidinone, 9CI

Synonym(s): Ornithine lactam



CAS Registry Number: 1892-22-4

Related CAS Registry Numbers(s): 7438-77-9

Molecular Formula: $C_5H_{10}N_2O$

Molecular Weight: 114.147

Accurate Mass: 114.079313

Percentage Composition: C 52.61%; H 8.83%; N 24.54%; O 14.02%

>>Variant: (R)-form

CAS Registry Number: 88763-76-2

Molecular Formula: $C_5H_{10}N_2O$

Molecular Weight: 114.147

Accurate Mass: 114.079313

Percentage Composition: C 52.61%; H 8.83%; N 24.54%; O 14.02%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 85.5-87.5°

>>Derivative: *N*-tert-Butyloxycarbonyl

CAS Registry Number: 221874-51-7

Molecular Formula: $C_{10}H_{18}N_2O_3$

Molecular Weight: 214.264

Accurate Mass: 214.131743

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

Physical Description: Oil

Optical Rotation: $[\alpha]_D^{24} -57.4$ (c, 1.07 in $CHCl_3$)

>>Derivative: *N*-Hydroxy; hydrochloride

CAS Registry Number: 37524-32-6

Physical Description: Cryst. (MeOH/EtOH)

Melting Point: Mp 208-215 dec.°

Optical Rotation: $[\alpha]_D^{24} -0.8$ (c, 0.83 in H_2O)

>>Variant: (S)-form

Molecular Formula: $C_5H_{10}N_2O$

Molecular Weight: 114.147

Accurate Mass: 114.079313

Percentage Composition: C 52.61%; H 8.83%; N 24.54%; O 14.02%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 86-87°. Mp 42°

Optical Rotation: $[\alpha]_D^{25} -12.4$ (c, 3.44 in $CHCl_3$). $[\alpha]_D^{25} -19.9$ (dioxan)

>>Derivative: Hydrochloride

CAS Registry Number: 42538-31-8

Melting Point: Mp 218-220 dec.°

>>Derivative: *N*³-Benzoyl

Molecular Formula: $C_{12}H_{14}N_2O_2$

Molecular Weight: 218.255

Accurate Mass: 218.105528

Percentage Composition: C 66.04%; H 6.47%; N 12.84%; O 14.66%

Melting Point: Mp 170-172°