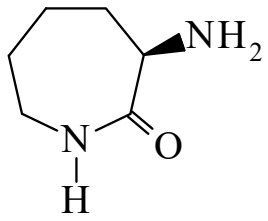
>>**Entry Name: 3-Aminohexahydro-2*H*-azepin-2-one,** 9CI
Synonym(s): 3-Amino-ε-caprolactam



(*R*)-*form*

CAS Registry Number: 671-42-1

Molecular Formula: $C_6H_{12}N_2O$
Molecular Weight: 128.174
Accurate Mass: 128.094963
Percentage Composition: C 56.23%; H 9.44%; N 21.86%; O 12.48%

>>**Variant:** (*R*)-form

CAS Registry Number: 28957-33-7
Molecular Formula: $C_6H_{12}N_2O$
Molecular Weight: 128.174
Accurate Mass: 128.094963
Percentage Composition: C 56.23%; H 9.44%; N 21.86%; O 12.48%
Sigma: A5537

>>**Derivative:** Hydrochloride

CAS Registry Number: 26081-03-8
Physical Description: Solid (MeOH)
Optical Rotation: $[\alpha]_D^{26}$+26.4 (c, 4 in 1*M* HCl) (>99% ee)

>>**Derivative:** Hydrobromide

CAS Registry Number: 16473-63-5
Optical Rotation: $[\alpha]_D^{20}$+20.7 (c, 5 in H_2O)

>>**Variant:** (*S*)-form

CAS Registry Number: 21568-87-6
Molecular Formula: $C_6H_{12}N_2O$
Molecular Weight: 128.174
Accurate Mass: 128.094963
Percentage Composition: C 56.23%; H 9.44%; N 21.86%; O 12.48%
Melting Point: Mp 71-72°
Optical Rotation: $[\alpha]_D^{25}$–34 (c, 4 in 1*M* HCl) (100% ee)
Aldrich: 26359-1
Fluka: 7257
Sigma: A5412

>>**Derivative:** Hydrochloride

CAS Registry Number: 26081-07-2
Melting Point: Mp 270°
Optical Rotation: $[\alpha]_D^{25}$–27 (c, 2.98 in 1*M* HCl)

>>**Derivative:** Hydrobromide

CAS Registry Number: 16473-62-4
Melting Point: Mp 285-288 dec.°
Optical Rotation: $[\alpha]_D^{20}$–20.7 (c, 5 in H_2O)

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