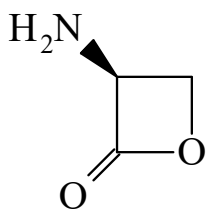
>>**Entry Name: 3-Amino-2-oxetanone**
Synonym(s): α-Amino-β-propiolactone. Serine β-lactone



(*S*)-*form*

CAS Registry Number: 102549-18-8
Related CAS Registry Numbers(s): 130854-30-7

Molecular Formula: $C_3H_5NO_2$
Molecular Weight: 87.078
Accurate Mass: 87.032029
Percentage Composition: C 41.38%; H 5.79%; N 16.09%; O 36.75%

>>**Variant:** (*R*)-form
Synonym(s): D-form

Molecular Formula: $C_3H_5NO_2$
Molecular Weight: 87.078
Accurate Mass: 87.032029
Percentage Composition: C 41.38%; H 5.79%; N 16.09%; O 36.75%

>>**Derivative:** 4-Methylbenzenesulfonate

Physical Description: Solid

>>**Variant:** (*S*)-form
Synonym(s): L-form

Molecular Formula: $C_3H_5NO_2$
Molecular Weight: 87.078
Accurate Mass: 87.032029
Percentage Composition: C 41.38%; H 5.79%; N 16.09%; O 36.75%
Use/Importance: Salts descr. react with nucleophiles to give optically pure amino acids

>>**Derivative:** Trifluoroacetate salt

CAS Registry Number: 112839-94-8
Other Data: Unstable, used immediately

>>**Derivative:** 4-Methylbenzenesulfonate

CAS Registry Number: 112839-95-9
Physical Description: Cryst. (DMF/Et_2O)
Optical Rotation: $[\alpha]_D^{25}$ –15.9 (c, 2.2 in DMF)
Other Data: Darkens from 135°, dec. >173°

>>**Derivative:** *N-tert*-Butyloxycarbonyl

CAS Registry Number: 98541-64-1
Molecular Formula: $C_8H_{13}NO_4$
Molecular Weight: 187.195
Accurate Mass: 187.084459
Percentage Composition: C 51.33%; H 7.00%; N 7.48%; O 34.19%
Physical Description: Cryst.
Melting Point: Mp 119.5-120.5 dec.°
Optical Rotation: $[\alpha]_D^{22}$ –26.7 (c, 1 in MeCN)