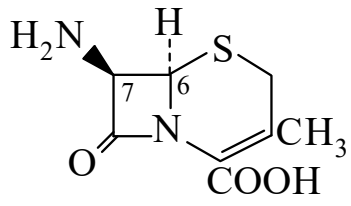
>>**Entry Name: 7-Amino-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,** 9CI
Synonym(s): 7-Amino-3-methyl-3-cephem-4-carboxylic acid. 7-Aminodeacetoxycephalosporanic acid. 7-ADCA



CAS Registry Number: 26395-99-3

Molecular Formula: $C_8H_{10}N_2O_3S$
Molecular Weight: 214.245
Accurate Mass: 214.041213
Percentage Composition: C 44.85%; H 4.70%; N 13.08%; O 22.40%; S 14.97%

>>**Variant:** (6*R*,7*R*)-form

CAS Registry Number: 22252-43-3

Molecular Formula: $C_8H_{10}N_2O_3S$
Molecular Weight: 214.245
Accurate Mass: 214.041213
Percentage Composition: C 44.85%; H 4.70%; N 13.08%; O 22.40%; S 14.97%
Biological Source: Prod. by *Acremonium chrysogenum*
Use/Importance: Starting material for cephem antibiotics
Melting Point: Mp 241-242°
Optical Rotation: $[\alpha]_D^{18}$+111 (c, 0.175 in DMSO)
Sigma: A8398

>>**Derivative:** *N*-Ac, Me ester

CAS Registry Number: 40818-81-3
Source/Synthesis: Semisynthetic
Physical Description: Needles (CH_2Cl_2/petrol)
Melting Point: Mp 214-216°
Optical Rotation: $[\alpha]_D^{18}$+181 (c, 0.138 in $CHCl_3$)

>>**Derivative:** *N*-(Phenylacetyl)

CAS Registry Number: 27255-72-7
Molecular Formula: $C_{16}H_{16}N_2O_4S$
Molecular Weight: 332.379
Accurate Mass: 332.083078
Percentage Composition: C 57.82%; H 4.85%; N 8.43%; O 19.25%; S 9.65%
Physical Description: Cryst. (2-propanol/petrol)
Melting Point: Mp 198-200°

>>**Derivative:** *N*-(Phenoxyacetyl)

CAS Registry Number: 10209-11-7
Molecular Formula: $C_{16}H_{16}N_2O_5S$
Molecular Weight: 348.379
Accurate Mass: 348.077993
Percentage Composition: C 55.16%; H 4.63%; N 8.04%; O 22.96%; S 9.20%
Physical Description: Cryst. (EtOAc/petrol)
Melting Point: Mp 186-188°

>>**Derivative:** 10-Acetoxy
see 7-Aminocephalosporanic acid, CKN38-P

References: