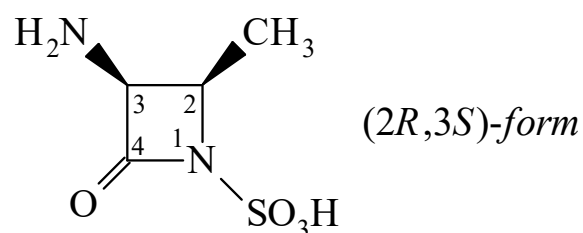




>>Entry Name: 3-Amino-2-methyl-4-oxo-1-azetidinesulfonic acid, 9Cl



CAS Registry Number: 92007-69-7

Related CAS Registry Numbers(s): 80582-09-8 95586-88-2 112026-42-3

Molecular Formula: C₄H₈N₂O₄S

Molecular Weight: 180.184

Accurate Mass: 180.020478

Percentage Composition: C 26.66%; H 4.47%; N 15.55%; O 35.52%; S 17.80%

General Statement: Zwitterionic

Use/Importance: Intermediate for monobactams

>>Variant: (2*R*,3*S*)-form

Synonym(s): (–)-*cis*-form

CAS Registry Number: 80582-09-8

Molecular Formula: C₄H₈N₂O₄S

Molecular Weight: 180.184

Accurate Mass: 180.020478

Percentage Composition: C 26.66%; H 4.47%; N 15.55%; O 35.52%; S 17.80%

Melting Point: Mp 200 dec.°

Optical Rotation: [α]_D –62 (c, 3.15 in H₂O)

>>Variant: (2*S*,3*S*)-form

Synonym(s): (–)-*trans*-form

CAS Registry Number: 80082-65-1

Molecular Formula: C₄H₈N₂O₄S

Molecular Weight: 180.184

Accurate Mass: 180.020478

Percentage Composition: C 26.66%; H 4.47%; N 15.55%; O 35.52%; S 17.80%

Physical Description: Powder

Melting Point: Mp 218 dec.° (223-225°)

Optical Rotation: [α]_D –41.1 (c, 1 in H₂O)

>>Variant: (2*RS*,3*SR*)-form

Synonym(s): (±)-*cis*-form

CAS Registry Number: 122553-93-9

Molecular Formula: C₄H₈N₂O₄S

Molecular Weight: 180.184

Accurate Mass: 180.020478

Percentage Composition: C 26.66%; H 4.47%; N 15.55%; O 35.52%; S 17.80%

Physical Description: Cryst. solid

Melting Point: Mp 205-206°

References:

Floyd, D.M. *et al.*, *J.O.C.*, 1982, **47**, 5160, (*synth*, *pmr*, *cmr*, *ir*)

Cimarusti, C.M. *et al.*, *Tetrahedron*, 1983, **39**, 2577, (*synth*, *pmr*, *cmr*)

Fernández-Resa, P. *et al.*, *J.C.S. Perkin 1*, 1989, 67, (*synth*, *pmr*)