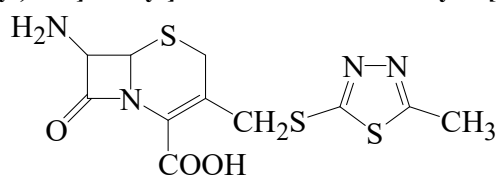




>>Entry Name: 7-Amino-3-[[[(5-methyl-1,3,4-thiadiazol-2-yl)thio]methyl]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 9CI



CAS Registry Number: 30246-33-4

Molecular Formula: C₁₁H₁₂N₄O₃S₃

Molecular Weight: 344.439

Accurate Mass: 344.007151

Percentage Composition: C 38.36%; H 3.51%; N 16.27%; O 13.94%; S 27.93%

Use/Importance: Intermed. for Cefazolin [BDT66-S](#) and Cefazedone [CKW96-Y](#)

Physical Description: Plates

Melting Point: Mp 222-225°

Optical Rotation: [α]_D²⁰ -70 (c, 1 in H₂O/Et₃N). [α]_D²⁰ -180 (c, 0.5 in DBU/1% DMF)

References:

Palomo-Coll, A. *et al.*, *Tetrahedron*, 1985, **41**, 5133-5139, (*synth*)

Walker, D.G. *et al.*, *J.O.C.*, 1988, **53**, 983-991, (*synth*)