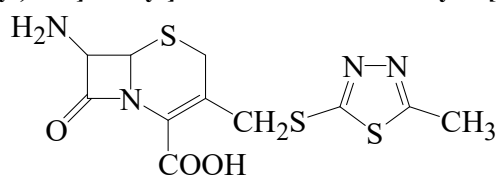




>>Entry Name: 7-Amino-3-[[[(5-methyl-1,3,4-thiadiazol-2-yl)thio]methyl]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 9Cl



**CAS Registry Number:** 30246-33-4

**Molecular Formula:** C<sub>11</sub>H<sub>12</sub>N<sub>4</sub>O<sub>3</sub>S<sub>3</sub>

**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:**  $[\alpha]_{\text{D}}^{20} -70$  (c, 1 in H<sub>2</sub>O/Et<sub>3</sub>N).  $[\alpha]_{\text{D}}^{20} -180$  (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*)