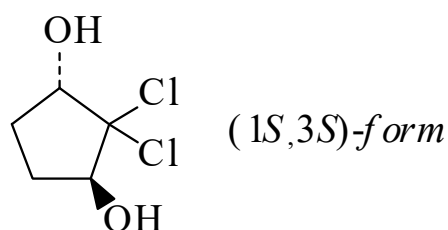




>>Entry Name: 2,2-Dichloro-1,3-cyclopentanediol, 9Cl



Related CAS Registry Numbers(s): 13373-43-8 13373-59-6

Molecular Formula: C₅H₈Cl₂O₂

Molecular Weight: 171.022

Accurate Mass: 169.990134

Percentage Composition: C 35.12%; H 4.71%; Cl 41.46%; O 18.71%

>>Variant: (1*S*,3*S*)-form

Synonym(s): (+)-*trans*-form. **Caldariomycin**

CAS Registry Number: 465-61-2

Molecular Formula: C₅H₈Cl₂O₂

Molecular Weight: 171.022

Accurate Mass: 169.990134

Percentage Composition: C 35.12%; H 4.71%; Cl 41.46%; O 18.71%

Biological Source: Metab. from *Caldariomyces fumago*

Use/Importance: Antibiotic active against a number of gram-positive organisms

Physical Description: Needles (CHCl₃)

Melting Point: Mp 121°

Optical Rotation: $[\alpha]_{\text{Hg}}^{20} +59.2$ (c, 0.338 in H₂O)

>>Variant: (1*R**S*,3*R**S*)-form

Synonym(s): (±)-*trans*-form

Molecular Formula: C₅H₈Cl₂O₂

Molecular Weight: 171.022

Accurate Mass: 169.990134

Percentage Composition: C 35.12%; H 4.71%; Cl 41.46%; O 18.71%

Melting Point: Mp 89-90°

References:

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Beckwith, J.R. *et al.*, *J.O.C.*, 1961, **26**, 5206, (*synth*)

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Burgstahler, A.W. *et al.*, *J.O.C.*, 1966, **31**, 3516, (*synth*)

Johnson, S.M. *et al.*, *J.A.C.S.*, 1968, **90**, 136, (*abs config*)