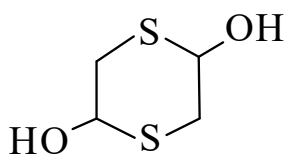




>>Entry Name: 1,4-Dithiane-2,5-diol, 9Cl

Synonym(s): Mercaptoacetaldehyde dimer



CAS Registry Number: 40018-26-6

Related CAS Registry Numbers(s): 87602-21-9 87602-27-5

Molecular Formula: C₄H₈O₂S₂

Molecular Weight: 152.238

Accurate Mass: 151.99657

Percentage Composition: C 31.56%; H 5.30%; O 21.02%; S 42.13%

General Statement: Two forms known, probably *cis* and *trans*

Use/Importance: Plant growth inhibitor

Aldrich: 18395-4

Fluka: 37687

>>Variant: α-form

Molecular Formula: C₄H₈O₂S₂

Molecular Weight: 152.238

Accurate Mass: 151.99657

Percentage Composition: C 31.56%; H 5.30%; O 21.02%; S 42.13%

Physical Description: Stout prisms

Melting Point: Mp 138-143°

>>Variant: β-form

Molecular Formula: C₄H₈O₂S₂

Molecular Weight: 152.238

Accurate Mass: 151.99657

Percentage Composition: C 31.56%; H 5.30%; O 21.02%; S 42.13%

Physical Description: Clusters

Melting Point: Mp 138-143°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 447B, (*nmr*)

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Hromatka, O. *et al.*, *Monatsh. Chem.*, 1954, **85**, 1088; *CA*, **49**, 15878f, (*synth*)

McIntosh, J.M. *et al.*, *Can. J. Chem.*, 1983, **61**, 1872, (*synth*)

Inamori, Y. *et al.*, *Chem. Pharm. Bull.*, 1990, **38**, 243, (*pmr, biochem*)