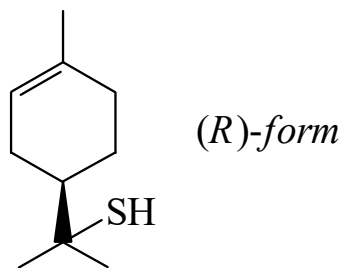




>>Entry Name: *p*-Menth-1-ene-8-thiol

ENTRY UNDER REVIEW

Synonym(s): $\alpha,\alpha,4$ -Trimethyl-3-cyclohexene-1-methanethiol, 9Cl. 4-(1-Mercapto-1-methylethyl)-1-methylcyclohexene. 8-Mercapto-*p*-menth-1-ene. FEMA 3700



CAS Registry Number: 71159-90-5

Molecular Formula: C₁₀H₁₈S

Molecular Weight: 170.318

Accurate Mass: 170.11292

Percentage Composition: C 70.52%; H 10.65%; S 18.83%

Biological Source: Iso. from grapefruit juice

Use/Importance: Powerful flavour constit.

Other Data: Opt. activity of natural enantiomer not known

>>Variant: (*R*)-form

CAS Registry Number: 83150-78-1

Molecular Formula: C₁₀H₁₈S

Molecular Weight: 170.318

Accurate Mass: 170.11292

Percentage Composition: C 70.52%; H 10.65%; S 18.83%

Physical Description: Oil

Optical Rotation: $[\alpha]_{\text{D}}^{20} +79.8$ (c, 1.44 in CHCl₃) ((Value corrected to 100% op is +82)). $[\alpha]_{\text{D}}^{20} +79.8$ (c, 1.44 in CHCl₃)

>>Variant: (*S*)-form

CAS Registry Number: 83150-77-0

Molecular Formula: C₁₀H₁₈S

Molecular Weight: 170.318

Accurate Mass: 170.11292

Percentage Composition: C 70.52%; H 10.65%; S 18.83%

Physical Description: Oil

Optical Rotation: $[\alpha]_{\text{D}}^{20} -63.9$ (c, 0.91 in CHCl₃). $[\alpha]_{\text{D}}^{20} -63.9$ (c, 1.91 in CHCl₃)

References:

Demole, E. *et al.*, *Helv. Chim. Acta*, 1982, **65**, 1785, (*synth*)

Fenaroli's Handbook of Flavor Ingredients, 3rd edn., (ed. Burdock, G.A.), CRC Press, 1995, **2**, 445, (*rev*)