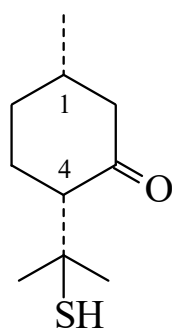




>>Entry Name: 8-Mercapto-*p*-menthan-3-one, 8Cl

ENTRY UNDER REVIEW

Synonym(s): 2-(1-Mercapto-1-methylethyl)-5-methylcyclohexanone, 9Cl. FEMA 3177



(1*S*,4*R*)-*form*

CAS Registry Number: 38462-22-5

Related CAS Registry Numbers(s): 33281-91-3 33284-96-7 34349-25-2 34352-05-1 94293-57-9

Molecular Formula: C₁₀H₁₈OS

Molecular Weight: 186.318

Accurate Mass: 186.107835

Percentage Composition: C 64.47%; H 9.74%; O 8.59%; S 17.21%

Aldrich: W31770-5

>>Variant: (1*S*,4*R*)-form

Synonym(s): (–)-*cis*-form

CAS Registry Number: 35117-86-3

Molecular Formula: C₁₀H₁₈OS

Molecular Weight: 186.318

Accurate Mass: 186.107835

Percentage Composition: C 64.47%; H 9.74%; O 8.59%; S 17.21%

Biological Source: Isol. from oil of *Baroshia* spp. (Buchu)

Optical Rotation: $[\alpha]_{\text{D}}^{20} -36$ (neat)

>>Derivative: *S*-Ac

CAS Registry Number: 57129-12-1

Molecular Formula: C₁₂H₂₀O₂S

Molecular Weight: 228.355

Accurate Mass: 228.1184

Percentage Composition: C 63.12%; H 8.83%; O 14.01%; S 14.04%

Biological Source: Isol. from oil of *Baroshia* spp.

Optical Rotation: $[\alpha]_{\text{D}}^{20} -34.1$

>>Derivative: *S*-Me

CAS Registry Number: 57129-15-4

Molecular Formula: C₁₁H₂₀OS

Molecular Weight: 200.344

Accurate Mass: 200.123485

Percentage Composition: C 65.95%; H 10.06%; O 7.99%; S 16.01%

Biological Source: Isol. from oil of *Baroshia* spp.

Optical Rotation: $[\alpha]_{\text{D}}^{20} -53.3$

>>Variant: (1*S*,4*S*)-form

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

CAS Registry Number: 35117-85-2

Molecular Formula: C₁₀H₁₈OS

Molecular Weight: 186.318

Accurate Mass: 186.107835

Percentage Composition: C 64.47%; H 9.74%; O 8.59%; S 17.21%

Biological Source: Isol. from oil of *Baroshia* spp.

Optical Rotation: $[\alpha]_{\text{D}}^{20} +21.5$ (neat)