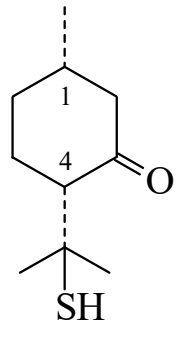
>>**Entry Name: 8-Mercapto-*p*-menthan-3-one,** 8CI
ENTRY UNDER REVIEW
Synonym(s): 2-(1-Mercapto-1-methylethyl)-5-methylcyclohexanone, 9CI. FEMA 3177



(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: $C_{10}H_{18}OS$
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: $C_{10}H_{18}OS$
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: $[\alpha]_D^{20}$ –36 (neat)

>>**Derivative:** *S*-Ac

CAS Registry Number: 57129-12-1

Molecular Formula: $C_{12}H_{20}O_2S$
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: $[\alpha]_D^{20}$ –34.1

>>**Derivative:** *S*-Me

CAS Registry Number: 57129-15-4

Molecular Formula: $C_{11}H_{20}OS$
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: $[\alpha]_D^{20}$ –53.3

>>**Variant:** (1*S*,4*S*)-form
Synonym(s): (+)-*trans*-form

CAS Registry Number: 35117-85-2

Molecular Formula: $C_{10}H_{18}OS$
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: $[\alpha]_D^{20}$ +21.5 (neat)

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