# (1S,5S)-4-Methylene-1-((R)-6-methylhept-5-en-2-yl

**Other names:** Bicyclo[3.1.0]hexane, 1-[(1R)-1,5-dimethyl-4-hexen-1-yl]-4-methylene-, (1S,5S)-
Bicyclo[3.1.0]hexane, 1-[(1R)-1,5-dimethyl-4-hexenyl]-4-methylene-, (1S,5S)-
Sesquisabinene
**Inchi:** InChI=1S/C15H24/c1-11(2)6-5-7-13(4)15-9-8-12(3)14(15)10-15/h6,13-14H,3,5,7-10H2,1-
**InchiKey:** DYUSFBWNOCHOFP-UHFFFAOYSA-N
**Formula:** C15H24
**SMILES:** C=C1CCC2(C(C)CCC=C(C)C)CC12
**Mol. weight [g/mol]:** 204.35
**CAS:** 58319-04-3

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 313.74 | kJ/mol | Joback Method |
| hf | -5.70 | kJ/mol | Joback Method |
| hfus | 18.79 | kJ/mol | Joback Method |
| hvap | 47.47 | kJ/mol | Joback Method |
| log10ws | -4.87 | | Crippen Method |
| logp | 4.725 | | Crippen Method |
| mcvol | 191.890 | ml/mol | McGowan Method |
| pc | 1942.37 | kPa | Joback Method |
| rinpol | 1446.00 | | NIST Webbook |
| rinpol | 1446.00 | | NIST Webbook |
| rinpol | 1467.00 | | NIST Webbook |
| rinpol | 1437.00 | | NIST Webbook |
| rinpol | 1459.00 | | NIST Webbook |
| rinpol | 1459.00 | | NIST Webbook |
| rinpol | 1465.00 | | NIST Webbook |
| rinpol | 1464.00 | | NIST Webbook |
| rinpol | 1444.00 | | NIST Webbook |
| ripol | 1648.00 | | NIST Webbook |
| ripol | 1648.00 | | NIST Webbook |
| tb | 559.08 | K | Joback Method |
| tc | 762.67 | K | Joback Method |
| tf | 298.23 | K | Joback Method |
| vc | 0.747 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 493.68 | J/mol×K | 559.08 | Joback Method |
| cpg | 513.41 | J/mol×K | 593.01 | Joback Method |
| cpg | 531.88 | J/mol×K | 626.94 | Joback Method |
| cpg | 549.25 | J/mol×K | 660.88 | Joback Method |
| cpg | 565.68 | J/mol×K | 694.81 | Joback Method |
| cpg | 581.34 | J/mol×K | 728.74 | Joback Method |
| cpg | 596.38 | J/mol×K | 762.67 | Joback Method |

# Sources

**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C58319043&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws
**Joback Method:** https://en.wikipedia.org/wiki/Joback_method
**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772

# Legend

**cpg:** Ideal gas heat capacity
**gf:** Standard Gibbs free energy of formation
**hf:** Enthalpy of formation at standard conditions
**hfus:** Enthalpy of fusion at standard conditions
**hvap:** Enthalpy of vaporization at standard conditions
**log10ws:** Log10 of Water solubility in mol/l
**logp:** Octanol/Water partition coefficient
**mcvol:** McGowan's characteristic volume
**pc:** Critical Pressure
**rinpol:** Non-polar retention indices
**ripol:** Polar retention indices
**tb:** Normal Boiling Point Temperature
**tc:** Critical Temperature
**tf:** Normal melting (fusion) point
**vc:** Critical Volume