

# Cyclohexene, 4-[(1E)-1,5-dimethyl-1,4-hexadien-1-yl]-1-methyl-

<b>Other names:</b>	4-[(1E)-1,5-Dimethyl-1,4-hexadienyl]-1-methyl-1-cyclohexene 2,5-Heptadiene, 2-methyl-6-(4-methyl-3-cyclohexen-1-yl)-, (E)- Cyclohexene, 4-(1,5-dimethyl-1,4-hexadienyl)-1-methyl-, (E)- Cyclohexene, 4-[(1E)-1,5-dimethyl-1,4-hexadienyl]-1-methyl- (E)-«alpha»-Bisabolene trans-«alpha»-Bisabolene «alpha»-Bisabolene
<b>Inchi:</b>	InChI=1S/C15H24/c1-12(2)6-5-7-14(4)15-10-8-13(3)9-11-15/h6-8,15H,5,9-11H2,1-4H3
<b>InchiKey:</b>	YHBUQBJHSRGZNF-UHFFFAOYSA-N
<b>Formula:</b>	C15H24
<b>SMILES:</b>	CC(C)=CCC=C(C)C1CC=C(C)CC1
<b>Mol. weight [g/mol]:</b>	204.35
<b>CAS:</b>	25532-79-0

## Physical Properties

Property code	Value	Unit	Source
gf	263.54	kJ/mol	Joback Method
hf	-37.44	kJ/mol	Joback Method
hfus	25.06	kJ/mol	Joback Method
hvap	50.44	kJ/mol	Joback Method
log10ws	-5.32		Crippen Method
logp	5.035		Crippen Method
mvol	198.450	ml/mol	McGowan Method
pc	1861.11	kPa	Joback Method
rinpol	1504.00		NIST Webbook
rinpol	1491.00		NIST Webbook
rinpol	1532.00		NIST Webbook
rinpol	1506.00		NIST Webbook
rinpol	1529.00		NIST Webbook
rinpol	1493.00		NIST Webbook
rinpol	1531.00		NIST Webbook
rinpol	1493.00		NIST Webbook
rinpol	1531.00		NIST Webbook
rinpol	1496.00		NIST Webbook
rinpol	1496.00		NIST Webbook
rinpol	1496.00		NIST Webbook
rinpol	1544.60		NIST Webbook

rinpol	1511.00	NIST Webbook
rinpol	1506.00	NIST Webbook
rinpol	1523.00	NIST Webbook
rinpol	1531.00	NIST Webbook
rinpol	1531.00	NIST Webbook
rinpol	1508.00	NIST Webbook
rinpol	1528.00	NIST Webbook
rinpol	1487.00	NIST Webbook
rinpol	1500.00	NIST Webbook
rinpol	1496.00	NIST Webbook
rinpol	1503.00	NIST Webbook
rinpol	1515.00	NIST Webbook
rinpol	1512.00	NIST Webbook
rinpol	1496.00	NIST Webbook
rinpol	1476.00	NIST Webbook
rinpol	1497.00	NIST Webbook
rinpol	1494.00	NIST Webbook
rinpol	1520.00	NIST Webbook
rinpol	1520.00	NIST Webbook
rinpol	1496.00	NIST Webbook
rinpol	1498.00	NIST Webbook
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rinpol	1515.00	NIST Webbook
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rinpol	1504.00	NIST Webbook
rinpol	1531.00	NIST Webbook
rinpol	1500.00	NIST Webbook
rinpol	1496.00	NIST Webbook
rinpol	1540.00	NIST Webbook
rinpol	1540.00	NIST Webbook
rinpol	1547.00	NIST Webbook
rinpol	1510.00	NIST Webbook
rinpol	1547.00	NIST Webbook
rinpol	1512.00	NIST Webbook
rinpol	1538.00	NIST Webbook

ripol	1499.00		NIST Webbook
ripol	1520.00		NIST Webbook
ripol	1532.00		NIST Webbook
ripol	1730.00		NIST Webbook
ripol	1767.00		NIST Webbook
ripol	1745.00		NIST Webbook
ripol	1766.00		NIST Webbook
ripol	1736.00		NIST Webbook
ripol	1777.00		NIST Webbook
ripol	1737.50		NIST Webbook
ripol	1777.00		NIST Webbook
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ripol	1724.00		NIST Webbook
ripol	1766.00		NIST Webbook
ripol	1733.00		NIST Webbook
ripol	1776.00		NIST Webbook
ripol	1720.00		NIST Webbook
ripol	1786.00		NIST Webbook
ripol	1770.00		NIST Webbook
ripol	1724.00		NIST Webbook
ripol	1726.00		NIST Webbook
tb	574.37	K	Joback Method
tc	785.97	K	Joback Method
tf	241.39	K	Joback Method
vc	0.756	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	495.01	J/mol×K	574.37	Joback Method
cpg	516.16	J/mol×K	609.64	Joback Method
cpg	536.07	J/mol×K	644.90	Joback Method
cpg	554.80	J/mol×K	680.17	Joback Method
cpg	572.42	J/mol×K	715.43	Joback Method
cpg	589.00	J/mol×K	750.70	Joback Method
cpg	604.60	J/mol×K	785.97	Joback Method

# Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C25532790&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C25532790&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

# Legend

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

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