

# Cyclohexene, 1-methyl-4-(1-methylethylidene)-

<b>Other names:</b>	1-Methyl-4-(1-methylethylidene)-cyclohexene 1-methyl-4-(1-methylethylidene)-cyclohexene («alpha»-terpinolene) 1-methyl-4-(1-methylethylidene)-cyclohexene (Â«alphaÂ»-terpinolene) 4-Isopropylidene-1-methyl-cyclohexene Terpinolen Terpinolene UN 2541 p-Menth-1,4(8)-diene p-Mentha-1,4(8)-diene «alpha»- Terpinolen «alpha»-Terpinolene Â«alphaÂ»- Terpinolen Â«alphaÂ»-Terpinolene
<b>Inchi:</b>	InChI=1S/C10H16/c1-8(2)10-6-4-9(3)5-7-10/h4H,5-7H2,1-3H3
<b>InchiKey:</b>	MOYAFQVGZZPNRA-UHFFFAOYSA-N
<b>Formula:</b>	C10H16
<b>SMILES:</b>	CC1=CCC(=C(C)C)CC1
<b>Mol. weight [g/mol]:</b>	136.23
<b>CAS:</b>	586-62-9

## Physical Properties

Property code	Value	Unit	Source
gf	122.72	kJ/mol	Joback Method
hf	-62.52	kJ/mol	Joback Method
hfus	12.27	kJ/mol	Joback Method
hvap	40.41	kJ/mol	Joback Method
log10ws	-3.61		Crippen Method
logp	3.453		Crippen Method
mcvol	132.300	ml/mol	McGowan Method
pc	2814.34	kPa	Joback Method
rinpol	1089.00		NIST Webbook
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tb	463.08	K	Joback Method
tc	675.06	K	Joback Method
tf	223.76	K	Joback Method
vc	0.499	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	272.08	J/mol×K	463.08	Joback Method
cpg	288.73	J/mol×K	498.41	Joback Method
cpg	304.49	J/mol×K	533.74	Joback Method
cpg	319.40	J/mol×K	569.07	Joback Method
cpg	333.48	J/mol×K	604.40	Joback Method
cpg	346.77	J/mol×K	639.73	Joback Method
cpg	359.30	J/mol×K	675.06	Joback Method
hvapt	50.50	kJ/mol	381.50	NIST Webbook
hvapt	50.80	kJ/mol	338.00	NIST Webbook

## Correlations

Information	Value
Property code	pvap

Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.39952e+01
Coeff. B	-3.65094e+03
Coeff. C	-6.93460e+01
Temperature range (K), min.	335.69
Temperature range (K), max.	489.78

## Sources

<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=C586629&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C586629&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>pvap:</b>	Vapor pressure
<b>ripol:</b>	Non-polar retention indices
<b>ripol:</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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