

# Carvomenthene oxide

<b>Other names:</b>	p-Menth-1-ene oxide
<b>Inchi:</b>	InChI=1S/C10H18O/c1-7(2)8-4-5-10(3)9(6-8)11-10/h7-9H,4-6H2,1-3H3
<b>InchiKey:</b>	WSHVHJSDSVPIV-UHFFFAOYSA-N
<b>Formula:</b>	C10H18O
<b>SMILES:</b>	CC(C)C1CCC2(C)OC2C1
<b>Mol. weight [g/mol]:</b>	154.25

## Physical Properties

Property code	Value	Unit	Source
gf	40.96	kJ/mol	Joback Method
hf	-252.67	kJ/mol	Joback Method
hfus	15.05	kJ/mol	Joback Method
hvap	40.51	kJ/mol	Joback Method
log10ws	-2.63		Crippen Method
logp	2.600		Crippen Method
mcvol	135.910	ml/mol	McGowan Method
pc	2823.32	kPa	Joback Method
rinpol	1127.00		NIST Webbook
rinpol	1131.00		NIST Webbook
rinpol	1127.00		NIST Webbook
tb	468.03	K	Joback Method
tc	677.82	K	Joback Method
tf	266.05	K	Joback Method
vc	0.513	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	321.17	J/molxK	468.03	Joback Method
cpg	340.52	J/molxK	502.99	Joback Method
cpg	358.49	J/molxK	537.96	Joback Method
cpg	375.19	J/molxK	572.92	Joback Method
cpg	390.78	J/molxK	607.89	Joback Method
cpg	405.39	J/molxK	642.85	Joback Method

## 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=R120160&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R120160&amp;Units=SI</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>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>rinpol:</b>	Non-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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