

# trans-Epoxyocimene

<b>Other names:</b>	(E)- «beta»-Ocimene epoxide (E)-Ocimenoxide E-Ocimene oxide (E)-Ocimene epoxide
<b>Inchi:</b>	InChI=1S/C10H16O/c1-5-10(4)9(11-10)7-6-8(2)3/h5-6,9H,1,7H2,2-4H3/t9-,10+/m1/s1
<b>InchiKey:</b>	DUBZPCHJCIFTKB-ZJUUVORDSA-N
<b>Formula:</b>	C10H16O
<b>SMILES:</b>	<chem>C=CC1(C)OC1CC=C(C)C</chem>
<b>Mol. weight [g/mol]:</b>	152.23

## Physical Properties

Property code	Value	Unit	Source
gf	154.26	kJ/mol	Joback Method
hf	-81.17	kJ/mol	Joback Method
hfus	20.15	kJ/mol	Joback Method
hvap	40.19	kJ/mol	Joback Method
log10ws	-2.92		Crippen Method
logp	2.686		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	2640.67	kPa	Joback Method
ripol	1124.00		NIST Webbook
ripol	1141.00		NIST Webbook
ripol	1141.00		NIST Webbook
ripol	1115.00		NIST Webbook
ripol	1139.00		NIST Webbook
ripol	1468.00		NIST Webbook
ripol	1492.00		NIST Webbook
ripol	1498.00		NIST Webbook
ripol	1492.00		NIST Webbook
ripol	1498.00		NIST Webbook
ripol	1498.00		NIST Webbook
ripol	1498.00		NIST Webbook
ripol	1498.00		NIST Webbook
ripol	1498.00		NIST Webbook
ripol	1498.00		NIST Webbook
ripol	1468.00		NIST Webbook
tb	458.18	K	Joback Method
tc	657.47	K	Joback Method

tf	245.83	K	Joback Method
vc	0.532	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	302.19	J/mol×K	458.18	Joback Method
cpg	318.21	J/mol×K	491.40	Joback Method
cpg	333.07	J/mol×K	524.61	Joback Method
cpg	346.90	J/mol×K	557.83	Joback Method
cpg	359.80	J/mol×K	591.04	Joback Method
cpg	371.90	J/mol×K	624.26	Joback Method
cpg	383.32	J/mol×K	657.47	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=R231824&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R231824&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>ripol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices

**tb:** Normal Boiling Point Temperature  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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