

# epoxyterpinolene

<b>Other names:</b>	4,8-Epoxyterpinolene Terpinolen-4,8-epoxide
<b>Inchi:</b>	InChI=1S/C10H16O/c1-8-4-6-10(7-5-8)9(2,3)11-10/h4H,5-7H2,1-3H3
<b>InchiKey:</b>	RTLTXDTPFWZLO-UHFFFAOYSA-N
<b>Formula:</b>	C10H16O
<b>SMILES:</b>	CC1=CCC2(CC1)OC2(C)C
<b>Mol. weight [g/mol]:</b>	152.23

## Physical Properties

Property code	Value	Unit	Source
gf	53.85	kJ/mol	Joback Method
hf	-171.66	kJ/mol	Joback Method
hfus	9.94	kJ/mol	Joback Method
hvap	41.19	kJ/mol	Joback Method
log10ws	-2.96		Crippen Method
logp	2.664		Crippen Method
mcvol	131.610	ml/mol	McGowan Method
pc	3206.41	kPa	Joback Method
ripol	1486.00		NIST Webbook
ripol	1477.00		NIST Webbook
ripol	1447.00		NIST Webbook
tb	481.79	K	Joback Method
tc	708.23	K	Joback Method
tf	318.95	K	Joback Method
vc	0.496	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	306.37	J/molxK	481.79	Joback Method
cpg	324.18	J/molxK	519.53	Joback Method
cpg	340.36	J/molxK	557.27	Joback Method
cpg	355.16	J/molxK	595.01	Joback Method
cpg	368.87	J/molxK	632.75	Joback Method

cpg	381.73	J/mol×K	670.49	Joback Method
cpg	394.01	J/mol×K	708.23	Joback Method

## Sources

<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>
<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=R234452&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R234452&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>

## 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>	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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