

# trans-Dehydroxylinalool oxide

<b>Inchi:</b>	InChI=1S/C10H16O/c1-5-10(4)7-6-9(11-10)8(2)3/h5,9H,1-2,6-7H2,3-4H3/t9-,10+/m1/s1
<b>InchiKey:</b>	XIGFNCYVSHOLIF-ZJUUVORDSA-N
<b>Formula:</b>	C10H16O
<b>SMILES:</b>	C=CC1(C)CCC(C(=C)C)O1
<b>Mol. weight [g/mol]:</b>	152.23

## Physical Properties

Property code	Value	Unit	Source
gf	137.68	kJ/mol	Joback Method
hf	-85.28	kJ/mol	Joback Method
hfus	14.47	kJ/mol	Joback Method
hvap	39.90	kJ/mol	Joback Method
log10ws	-2.92		Crippen Method
logp	2.686		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	2752.67	kPa	Joback Method
rinpol	983.00		NIST Webbook
rinpol	983.00		NIST Webbook
rinpol	983.00		NIST Webbook
tb	459.24	K	Joback Method
tc	668.90	K	Joback Method
tf	242.11	K	Joback Method
vc	0.517	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.19	J/mol×K	459.24	Joback Method
cpg	317.88	J/mol×K	494.18	Joback Method
cpg	334.36	J/mol×K	529.13	Joback Method
cpg	349.72	J/mol×K	564.07	Joback Method
cpg	364.10	J/mol×K	599.02	Joback Method
cpg	377.60	J/mol×K	633.96	Joback Method
cpg	390.34	J/mol×K	668.90	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=R626905&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R626905&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>h vap:</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>r in pol:</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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