

# trans-Anhydrolinalool oxide

<b>Other names:</b>	trans-Anhydrolinalool trans-Anhydrolinalool oxide (furanoid) (E)-anhydrolinalool oxide A
<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+/m0/s1
<b>InchiKey:</b>	XIGFNCYVSHOLIF-VHSXEESVSA-N
<b>Formula:</b>	C10H16O
<b>SMILES:</b>	C=CC1(C)CCC(C(=C)C)O1
<b>Mol. weight [g/mol]:</b>	152.23
<b>CAS:</b>	54750-70-8

## 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
ripol	1000.00		NIST Webbook
ripol	1000.00		NIST Webbook
ripol	993.00		NIST Webbook
ripol	993.80		NIST Webbook
ripol	993.00		NIST Webbook
ripol	993.80		NIST Webbook
ripol	1233.00		NIST Webbook
ripol	1254.00		NIST Webbook
ripol	1209.00		NIST Webbook
ripol	1194.00		NIST Webbook
ripol	1253.00		NIST Webbook
ripol	1253.00		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=C54750708&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C54750708&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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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