

# (R)-linalool

<b>Other names:</b>	R-(-)-Linalool
<b>Inchi:</b>	InChI=1S/C10H18O/c1-5-10(4,11)8-6-7-9(2)3/h5,7,11H,1,6,8H2,2-4H3/t10-m/s1
<b>InchiKey:</b>	CDOSHBSSFJOMGT-JTQLQIEISA-N
<b>Formula:</b>	C10H18O
<b>SMILES:</b>	<chem>C=CC(C)(O)CCC=C(C)C</chem>
<b>Mol. weight [g/mol]:</b>	154.25

## Physical Properties

Property code	Value	Unit	Source
gf	58.85	kJ/mol	Joback Method
hf	-177.85	kJ/mol	Joback Method
hfus	15.94	kJ/mol	Joback Method
hvap	52.61	kJ/mol	Joback Method
log10ws	-3.09		Crippen Method
logp	2.670		Crippen Method
mcvol	149.030	ml/mol	McGowan Method
pc	2581.96	kPa	Joback Method
rinpol	1086.00		NIST Webbook
rinpol	1100.00		NIST Webbook
rinpol	1104.00		NIST Webbook
rinpol	1086.00		NIST Webbook
ripol	1548.00		NIST Webbook
tb	517.87	K	Joback Method
tc	697.57	K	Joback Method
tf	244.90	K	Joback Method
vc	0.566	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.03	J/molxK	517.87	Joback Method
cpg	360.38	J/molxK	547.82	Joback Method
cpg	372.99	J/molxK	577.77	Joback Method
cpg	384.91	J/molxK	607.72	Joback Method

cpg	396.18	J/mol×K	637.67	Joback Method
cpg	406.83	J/mol×K	667.62	Joback Method
cpg	416.91	J/mol×K	697.57	Joback Method

## Sources

<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>
<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=R413393&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R413393&amp;Units=SI</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
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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