

# Camphenylal

<b>Inchi:</b>	InChI=1S/C10H16O/c1-10(2)8-4-3-7(5-8)9(10)6-11/h6-9H,3-5H2,1-2H3
<b>InchiKey:</b>	VMKZLKWCFOWLCT-UHFFFAOYSA-N
<b>Formula:</b>	C10H16O
<b>SMILES:</b>	CC1(C)C2CCC(C2)C1C=O
<b>Mol. weight [g/mol]:</b>	152.23

## Physical Properties

Property code	Value	Unit	Source
gf	22.29	kJ/mol	Joback Method
hf	-221.31	kJ/mol	Joback Method
hfus	13.96	kJ/mol	Joback Method
hvap	42.80	kJ/mol	Joback Method
log10ws	-2.11		Crippen Method
logp	2.258		Crippen Method
mvol	131.610	ml/mol	McGowan Method
pc	2953.69	kPa	Joback Method
rinpol	1103.00		NIST Webbook
rinpol	1103.00		NIST Webbook
tb	485.51	K	Joback Method
tc	696.20	K	Joback Method
tf	292.24	K	Joback Method
vc	0.514	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	315.83	J/mol×K	485.51	Joback Method
cpg	333.89	J/mol×K	520.63	Joback Method
cpg	350.66	J/mol×K	555.74	Joback Method
cpg	366.27	J/mol×K	590.86	Joback Method
cpg	380.86	J/mol×K	625.97	Joback Method
cpg	394.56	J/mol×K	661.09	Joback Method
cpg	407.51	J/mol×K	696.20	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=R324684&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R324684&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvp:</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>rinp:</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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