

# Dihydroocimene

<b>Inchi:</b>	InChI=1S/C10H18/c1-5-10(4)8-6-7-9(2)3/h5,8-9H,1,6-7H2,2-4H3/b10-8+
<b>InchiKey:</b>	WUIFRGYQELQKDN-CSKARUKUSA-N
<b>Formula:</b>	C10H18
<b>SMILES:</b>	C=CC(C)=CCCC(C)C
<b>Mol. weight [g/mol]:</b>	138.25

## Physical Properties

Property code	Value	Unit	Source
gf	190.39	kJ/mol	Joback Method
hf	-22.15	kJ/mol	Joback Method
hfus	15.74	kJ/mol	Joback Method
hvap	36.83	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	3.555		Crippen Method
mcvol	143.160	ml/mol	McGowan Method
pc	2331.52	kPa	Joback Method
rinpol	994.00		NIST Webbook
rinpol	994.00		NIST Webbook
rinpol	995.00		NIST Webbook
ripol	1110.00		NIST Webbook
ripol	1110.00		NIST Webbook
tb	428.48	K	Joback Method
tc	609.41	K	Joback Method
tf	166.66	K	Joback Method
vc	0.551	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	284.02	J/molxK	428.48	Joback Method
cpg	299.14	J/molxK	458.64	Joback Method
cpg	313.54	J/molxK	488.79	Joback Method
cpg	327.26	J/molxK	518.95	Joback Method
cpg	340.32	J/molxK	549.10	Joback Method

cpg	352.75	J/mol×K	579.26	Joback Method
cpg	364.58	J/mol×K	609.41	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=R232298&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R232298&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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