

# 6-Methyl-2-(4-methylcyclohex-3-en-1-yl)hepta-1,5-

<b>Inchi:</b>	InChI=1S/C15H24O/c1-11(2)9-15(16)10-13(4)14-7-5-12(3)6-8-14/h5,9,14-16H,4,6-8,10H
<b>InchiKey:</b>	HGURSBWDVNEOKP-UHFFFAOYSA-N
<b>Formula:</b>	C15H24O
<b>SMILES:</b>	<chem>C=C(CC(O)C=C(C)C)C1CC=C(C)CC1</chem>
<b>Mol. weight [g/mol]:</b>	220.35
<b>CAS:</b>	38142-56-2

## Physical Properties

Property code	Value	Unit	Source
gf	131.90	kJ/mol	Joback Method
hf	-186.74	kJ/mol	Joback Method
hfus	24.14	kJ/mol	Joback Method
hvap	66.11	kJ/mol	Joback Method
log10ws	-4.69		Crippen Method
logp	4.006		Crippen Method
mcpvol	204.320	ml/mol	McGowan Method
pc	2014.51	kPa	Joback Method
rinpol	1614.00		NIST Webbook
rinpol	1604.00		NIST Webbook
rinpol	1608.00		NIST Webbook
tb	658.63	K	Joback Method
tc	856.40	K	Joback Method
tf	290.53	K	Joback Method
vc	0.770	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	564.15	J/molxK	658.63	Joback Method
cpg	581.55	J/molxK	691.59	Joback Method
cpg	597.98	J/molxK	724.55	Joback Method
cpg	613.46	J/molxK	757.52	Joback Method
cpg	628.07	J/molxK	790.48	Joback Method
cpg	641.84	J/molxK	823.44	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=C38142562&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C38142562&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.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>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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