

# 4-(2,2-Dimethyl-6-methylenecyclohexyl)butanal

<b>Inchi:</b>	InChI=1S/C13H22O/c1-11-7-6-9-13(2,3)12(11)8-4-5-10-14/h10,12H,1,4-9H2,2-3H3
<b>InchiKey:</b>	LEXVMOJLXLEPJE-UHFFFAOYSA-N
<b>Formula:</b>	C13H22O
<b>SMILES:</b>	C=C1CCCC(C)(C)C1CCCC=O
<b>Mol. weight [g/mol]:</b>	194.31
<b>CAS:</b>	95452-13-4

## Physical Properties

Property code	Value	Unit	Source
gf	23.39	kJ/mol	Joback Method
hf	-263.77	kJ/mol	Joback Method
hfus	17.16	kJ/mol	Joback Method
hvap	50.38	kJ/mol	Joback Method
log10ws	-3.81		Crippen Method
logp	3.738		Crippen Method
mvol	180.440	ml/mol	McGowan Method
pc	2151.31	kPa	Joback Method
rinpol	1703.00		NIST Webbook
tb	559.78	K	Joback Method
tc	762.61	K	Joback Method
tf	318.99	K	Joback Method
vc	0.695	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	456.24	J/molxK	559.78	Joback Method
cpg	475.07	J/molxK	593.58	Joback Method
cpg	492.88	J/molxK	627.39	Joback Method
cpg	509.76	J/molxK	661.19	Joback Method
cpg	525.81	J/molxK	695.00	Joback Method
cpg	541.11	J/molxK	728.80	Joback Method
cpg	555.76	J/molxK	762.61	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C95452134&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C95452134&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# 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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