

# 3,3-dimethylcyclohex-6-eneacetaldehyde

<b>Inchi:</b>	InChI=1S/C10H16O/c1-10(2)6-3-4-9(8-10)5-7-11/h4,7H,3,5-6,8H2,1-2H3
<b>InchiKey:</b>	WHHNLCPUSNYEJH-UHFFFAOYSA-N
<b>Formula:</b>	C10H16O
<b>SMILES:</b>	CC1(C)CCC=C(CC=O)C1
<b>Mol. weight [g/mol]:</b>	152.23

## Physical Properties

Property code	Value	Unit	Source
gf	-26.91	kJ/mol	Joback Method
hf	-219.44	kJ/mol	Joback Method
hfus	10.31	kJ/mol	Joback Method
hvap	44.81	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.712		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	2976.29	kPa	Joback Method
rinpol	1125.00		NIST Webbook
tb	500.79	K	Joback Method
tc	714.74	K	Joback Method
tf	289.02	K	Joback Method
vc	0.529	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	312.79	J/mol×K	500.79	Joback Method
cpg	329.11	J/mol×K	536.45	Joback Method
cpg	344.38	J/mol×K	572.11	Joback Method
cpg	358.69	J/mol×K	607.76	Joback Method
cpg	372.17	J/mol×K	643.42	Joback Method
cpg	384.91	J/mol×K	679.08	Joback Method
cpg	397.02	J/mol×K	714.74	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=R216350&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R216350&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>hvac:</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>mccol:</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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