

# 2,3,3-Trimethyl-3-cyclopentene acetaldehyde

<b>Inchi:</b>	InChI=1S/C9H16O/c1-7-8(6-10)4-5-9(7,2)3/h6-8H,4-5H2,1-3H3
<b>InchiKey:</b>	SPHPESDVRLMLFF-UHFFFAOYSA-N
<b>Formula:</b>	C9H16O
<b>SMILES:</b>	CC1C(C=O)CCC1(C)C
<b>Mol. weight [g/mol]:</b>	140.22

## Physical Properties

Property code	Value	Unit	Source
gf	-58.98	kJ/mol	Joback Method
hf	-279.63	kJ/mol	Joback Method
hfus	11.13	kJ/mol	Joback Method
hvap	40.84	kJ/mol	Joback Method
log10ws	-2.04		Crippen Method
logp	2.258		Crippen Method
mcvol	128.380	ml/mol	McGowan Method
pc	2925.00	kPa	Joback Method
rinqol	1117.00		NIST Webbook
tb	460.16	K	Joback Method
tc	665.26	K	Joback Method
tf	259.51	K	Joback Method
vc	0.493	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	284.61	J/mol×K	460.16	Joback Method
cpg	301.64	J/mol×K	494.34	Joback Method
cpg	317.61	J/mol×K	528.53	Joback Method
cpg	332.61	J/mol×K	562.71	Joback Method
cpg	346.74	J/mol×K	596.89	Joback Method
cpg	360.08	J/mol×K	631.07	Joback Method
cpg	372.72	J/mol×K	665.26	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=R419326&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R419326&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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