

# 4-acetylmethylcyclohexene

<b>Inchi:</b>	InChI=1S/C9H14O/c1-8(10)7-9-5-3-2-4-6-9/h2-3,9H,4-7H2,1H3
<b>InchiKey:</b>	MVIWJWRXINGWNY-UHFFFAOYSA-N
<b>Formula:</b>	C9H14O
<b>SMILES:</b>	CC(=O)CC1CC=CCC1
<b>Mol. weight [g/mol]:</b>	138.21

## Physical Properties

Property code	Value	Unit	Source
gf	-49.61	kJ/mol	Joback Method
hf	-229.57	kJ/mol	Joback Method
hfus	13.72	kJ/mol	Joback Method
hvap	43.09	kJ/mol	Joback Method
log10ws	-2.38		Crippen Method
logp	2.322		Crippen Method
mcvol	124.080	ml/mol	McGowan Method
pc	3163.27	kPa	Joback Method
rinpola	1158.00		NIST Webbook
rinpola	1141.00		NIST Webbook
tb	477.90	K	Joback Method
tc	690.34	K	Joback Method
tf	249.26	K	Joback Method
vc	0.465	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	266.16	J/molxK	477.90	Joback Method
cpg	338.88	J/molxK	654.93	Joback Method
cpg	326.03	J/molxK	619.53	Joback Method
cpg	312.37	J/molxK	584.12	Joback Method
cpg	297.85	J/molxK	548.71	Joback Method
cpg	282.46	J/molxK	513.31	Joback Method
cpg	350.92	J/molxK	690.34	Joback Method
dvisc	0.0003064	Paxs	477.90	Joback Method

dvisc	0.0003973	Paxs	439.79	Joback Method
dvisc	0.0005411	Paxs	401.69	Joback Method
dvisc	0.0007864	Paxs	363.58	Joback Method
dvisc	0.0012474	Paxs	325.47	Joback Method
dvisc	0.0022361	Paxs	287.37	Joback Method
dvisc	0.0047916	Paxs	249.26	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R512524&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R512524&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.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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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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