

# CH<sub>3</sub>C(O)OCH(CH<sub>3</sub>)CH<sub>2</sub>C(CH<sub>3</sub>)<sub>3</sub>

<b>Other names:</b>	Acetic acid, 4,4-dimethylpent-2-yl ester
<b>Inchi:</b>	InChI=1S/C9H18O2/c1-7(11-8(2)10)6-9(3,4)5/h7H,6H2,1-5H3
<b>InchiKey:</b>	YNZHMOJBQUFQMY-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>9</sub> H <sub>18</sub> O <sub>2</sub>
<b>SMILES:</b>	CC(=O)OC(C)CC(C)(C)C
<b>Mol. weight [g/mol]:</b>	158.24
<b>CAS:</b>	60388-83-2

## Physical Properties

Property code	Value	Unit	Source
gf	-208.62	kJ/mol	Joback Method
hf	-487.92	kJ/mol	Joback Method
hfus	10.92	kJ/mol	Joback Method
hvap	43.10	kJ/mol	Joback Method
log10ws	-2.32		Crippen Method
logp	2.374		Crippen Method
mcvol	145.110	ml/mol	McGowan Method
pc	2477.65	kPa	Joback Method
rinpol	960.00		NIST Webbook
tb	477.94	K	Joback Method
tc	666.16	K	Joback Method
tf	250.77	K	Joback Method
vc	0.546	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	325.82	J/mol×K	477.94	Joback Method
cpg	340.58	J/mol×K	509.31	Joback Method
cpg	354.64	J/mol×K	540.68	Joback Method
cpg	368.03	J/mol×K	572.05	Joback Method
cpg	380.76	J/mol×K	603.42	Joback Method
cpg	392.85	J/mol×K	634.79	Joback Method
cpg	404.33	J/mol×K	666.16	Joback Method

dvisc	0.0068881	Paxs	250.77	Joback Method
dvisc	0.0026801	Paxs	288.63	Joback Method
dvisc	0.0012980	Paxs	326.49	Joback Method
dvisc	0.0007309	Paxs	364.36	Joback Method
dvisc	0.0004585	Paxs	402.22	Joback Method
dvisc	0.0003117	Paxs	440.08	Joback Method
dvisc	0.0002253	Paxs	477.94	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C60388832&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C60388832&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>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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