

# trans-carbomethoxy-5-methylcyclohex-3-ene

<b>Inchi:</b>	InChI=1S/C9H14O2/c1-7-4-3-5-8(6-7)9(10)11-2/h3-4,7-8H,5-6H2,1-2H3/t7-,8-/m0/s1
<b>InchiKey:</b>	VZAI BLBJANAOTQ-YUMQZZPRSA-N
<b>Formula:</b>	C9H14O2
<b>SMILES:</b>	COC(=O)C1CC=CC(C)C1
<b>Mol. weight [g/mol]:</b>	154.21

## Physical Properties

Property code	Value	Unit	Source
gf	-162.32	kJ/mol	Joback Method
hf	-382.13	kJ/mol	Joback Method
hfus	15.98	kJ/mol	Joback Method
hvap	45.20	kJ/mol	Joback Method
log10ws	-1.72		Crippen Method
logp	1.762		Crippen Method
mcvol	129.950	ml/mol	McGowan Method
pc	2992.59	kPa	Joback Method
ripol	1497.00		NIST Webbook
ripol	1497.00		NIST Webbook
ripol	1527.80		NIST Webbook
ripol	1530.40		NIST Webbook
tb	495.65	K	Joback Method
tc	705.97	K	Joback Method
tf	267.25	K	Joback Method
vc	0.481	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	292.21	J/molxK	495.65	Joback Method
cpg	308.44	J/molxK	530.70	Joback Method
cpg	323.88	J/molxK	565.76	Joback Method
cpg	338.53	J/molxK	600.81	Joback Method
cpg	352.41	J/molxK	635.86	Joback Method
cpg	365.52	J/molxK	670.91	Joback Method

cpg	377.85	J/mol×K	705.97	Joback Method
dvisc	0.0026183	Paxs	267.25	Joback Method
dvisc	0.0014230	Paxs	305.32	Joback Method
dvisc	0.0008854	Paxs	343.38	Joback Method
dvisc	0.0006056	Paxs	381.45	Joback Method
dvisc	0.0004438	Paxs	419.52	Joback Method
dvisc	0.0003424	Paxs	457.58	Joback Method
dvisc	0.0002750	Paxs	495.65	Joback Method

## Sources

<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=R388475&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R388475&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>

## 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>ripol:</b>	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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