

# cis-1-carbomethoxy-5-tert-butylcyclohex-3-ene

<b>Inchi:</b>	InChI=1S/C12H20O2/c1-12(2,3)10-7-5-6-9(8-10)11(13)14-4/h5,7,9-10H,6,8H2,1-4H3/t9-
<b>InchiKey:</b>	MWUJYSQXIKGVTI-VHSXEESVSA-N
<b>Formula:</b>	C12H20O2
<b>SMILES:</b>	COC(=O)C1CC=CC(C(C)(C)C)C1
<b>Mol. weight [g/mol]:</b>	196.29

## Physical Properties

Property code	Value	Unit	Source
gf	-134.22	kJ/mol	Joback Method
hf	-452.80	kJ/mol	Joback Method
hfus	16.34	kJ/mol	Joback Method
hvap	50.58	kJ/mol	Joback Method
log10ws	-2.73		Crippen Method
logp	2.788		Crippen Method
mcvol	172.220	ml/mol	McGowan Method
pc	2274.07	kPa	Joback Method
ripol	1728.50		NIST Webbook
ripol	1740.80		NIST Webbook
ripol	1728.50		NIST Webbook
tb	561.06	K	Joback Method
tc	774.40	K	Joback Method
tf	303.48	K	Joback Method
vc	0.638	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	438.71	J/molxK	561.06	Joback Method
cpg	458.34	J/molxK	596.62	Joback Method
cpg	476.82	J/molxK	632.17	Joback Method
cpg	494.16	J/molxK	667.73	Joback Method
cpg	510.41	J/molxK	703.28	Joback Method
cpg	525.59	J/molxK	738.84	Joback Method
cpg	539.75	J/molxK	774.40	Joback Method

dvisc	0.0033615	Paxs	303.48	Joback Method
dvisc	0.0015922	Paxs	346.41	Joback Method
dvisc	0.0008892	Paxs	389.34	Joback Method
dvisc	0.0005576	Paxs	432.27	Joback Method
dvisc	0.0003804	Paxs	475.20	Joback Method
dvisc	0.0002765	Paxs	518.13	Joback Method
dvisc	0.0002110	Paxs	561.06	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R388391&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R388391&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>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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