

# trans-carbomethoxy-1,3-dimethylcyclohexane

<b>Inchi:</b>	InChI=1S/C10H18O2/c1-8-5-4-6-10(2,7-8)9(11)12-3/h8H,4-7H2,1-3H3/t8-,10-/m1/s1
<b>InchiKey:</b>	NOUTXABQGMWME-PSASIEDQSA-N
<b>Formula:</b>	C10H18O2
<b>SMILES:</b>	COC(=O)C1(C)CCCC(C)C1
<b>Mol. weight [g/mol]:</b>	170.25

## Physical Properties

Property code	Value	Unit	Source
gf	-189.35	kJ/mol	Joback Method
hf	-445.31	kJ/mol	Joback Method
hfus	11.05	kJ/mol	Joback Method
hvap	45.98	kJ/mol	Joback Method
log10ws	-2.28		Crippen Method
logp	2.376		Crippen Method
mcvol	148.340	ml/mol	McGowan Method
pc	2726.86	kPa	Joback Method
ripol	1358.50		NIST Webbook
ripol	1390.80		NIST Webbook
ripol	1369.80		NIST Webbook
tb	519.61	K	Joback Method
tc	733.33	K	Joback Method
tf	301.66	K	Joback Method
vc	0.549	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	355.82	J/molxK	519.61	Joback Method
cpg	374.01	J/molxK	555.23	Joback Method
cpg	391.16	J/molxK	590.85	Joback Method
cpg	407.36	J/molxK	626.47	Joback Method
cpg	422.69	J/molxK	662.09	Joback Method
cpg	437.25	J/molxK	697.71	Joback Method
cpg	451.12	J/molxK	733.33	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=R388420&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R388420&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>hvp:</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

Latest version available from:

<https://www.chemeo.com/cid/78-721-5/trans-carbomethoxy-1-3-dimethylcyclohexane.pdf>

Generated by Cheméo on 2024-04-25 16:05:40.332084613 +0000 UTC m=+16350389.252661925.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.