

# 2,2,4-trimethylcyclohexene-carboxaldehyde

<b>Inchi:</b>	InChI=1S/C10H16O/c1-8-4-5-9(7-11)10(2,3)6-8/h5,7-8H,4,6H2,1-3H3
<b>InchiKey:</b>	PWFBZZTXVTYUMA-UHFFFAOYSA-N
<b>Formula:</b>	C10H16O
<b>SMILES:</b>	CC1CC=C(C=O)C(C)(C)C1
<b>Mol. weight [g/mol]:</b>	152.23

## Physical Properties

Property code	Value	Unit	Source
gf	-34.62	kJ/mol	Joback Method
hf	-239.78	kJ/mol	Joback Method
hfus	11.39	kJ/mol	Joback Method
hvap	44.50	kJ/mol	Joback Method
log10ws	-2.55		Crippen Method
logp	2.568		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	2871.95	kPa	Joback Method
ripol	1715.00		NIST Webbook
tb	496.12	K	Joback Method
tc	709.88	K	Joback Method
tf	284.78	K	Joback Method
vc	0.528	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	313.56	J/mol×K	496.12	Joback Method
cpg	330.31	J/mol×K	531.75	Joback Method
cpg	346.01	J/mol×K	567.37	Joback Method
cpg	360.76	J/mol×K	603.00	Joback Method
cpg	374.68	J/mol×K	638.62	Joback Method
cpg	387.85	J/mol×K	674.25	Joback Method
cpg	400.37	J/mol×K	709.88	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R336484&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R336484&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>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>mccvol:</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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