

# 2,5,6-trimethylcyclohex-2-en-1-one

<b>Other names:</b>	2,5,6-Trimethyl-2-cyclohexen-1-one
<b>Inchi:</b>	InChI=1S/C9H14O/c1-6-4-5-7(2)9(10)8(6)3/h5-6,8H,4H2,1-3H3
<b>InchiKey:</b>	QAQCUBLNHBKTRM-UHFFFAOYSA-N
<b>Formula:</b>	C9H14O
<b>SMILES:</b>	CC1=CCC(C)C(C)C1=O
<b>Mol. weight [g/mol]:</b>	138.21
<b>CAS:</b>	20030-30-2

## Physical Properties

Property code	Value	Unit	Source
gf	-60.62	kJ/mol	Joback Method
hf	-286.50	kJ/mol	Joback Method
hfus	12.31	kJ/mol	Joback Method
hvap	40.95	kJ/mol	Joback Method
log10ws	-2.13		Crippen Method
logp	2.178		Crippen Method
mcvol	124.080	ml/mol	McGowan Method
pc	2909.25	kPa	Joback Method
tb	492.16	K	Joback Method
tc	712.40	K	Joback Method
tf	275.83	K	Joback Method
vc	0.465	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	352.77	J/mol×K	675.69	Joback Method
cpg	276.29	J/mol×K	492.16	Joback Method
cpg	293.01	J/mol×K	528.87	Joback Method
cpg	309.03	J/mol×K	565.57	Joback Method
cpg	324.34	J/mol×K	602.28	Joback Method
cpg	338.93	J/mol×K	638.98	Joback Method
cpg	365.86	J/mol×K	712.40	Joback Method
cpl	258.40	J/mol×K	298.15	NIST Webbook

cpl	258.10	J/mol×K	298.15	NIST Webbook
hvapt	45.50 ± 0.30	kJ/mol	424.50	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C20030302&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C20030302&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>cpl:</b>	Liquid phase 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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>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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