

# 2,3-dimethyl-4-isopropenyl-1-cyclopentanone

<b>Inchi:</b>	InChI=1S/C10H16O/c1-6(2)9-5-10(11)8(4)7(9)3/h7-9H,1,5H2,2-4H3
<b>InchiKey:</b>	CZUYJUUMDUMIDE-UHFFFAOYSA-N
<b>Formula:</b>	C10H16O
<b>SMILES:</b>	<chem>C=C(C)C1CC(=O)C(C)C1C</chem>
<b>Mol. weight [g/mol]:</b>	152.23

## Physical Properties

Property code	Value	Unit	Source
gf	11.15	kJ/mol	Joback Method
hf	-251.99	kJ/mol	Joback Method
hfus	14.65	kJ/mol	Joback Method
hvap	41.15	kJ/mol	Joback Method
log10ws	-2.31		Crippen Method
logp	2.424		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	2545.61	kPa	Joback Method
rinsol	1113.00		NIST Webbook
tb	498.52	K	Joback Method
tc	712.47	K	Joback Method
tf	257.38	K	Joback Method
vc	0.523	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	320.38	J/mol×K	498.52	Joback Method
cpg	338.69	J/mol×K	534.18	Joback Method
cpg	356.18	J/mol×K	569.84	Joback Method
cpg	372.84	J/mol×K	605.50	Joback Method
cpg	388.69	J/mol×K	641.15	Joback Method
cpg	403.71	J/mol×K	676.81	Joback Method
cpg	417.91	J/mol×K	712.47	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R187490&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R187490&amp;Units=SI</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>rinpol:</b>	Non-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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