

# Cyclohexanone, 5-methyl-2-(1-methylethyl)-, cis-

<b>Other names:</b>	p-Menthan-3-one, cis- cis-p-Menthan-3-one Isomenthone p-Menthan-3-one, (Z)- Cyclohexanone, 5-methyl-2-(1-methylethyl)-, (Z)- 2-Isopropyl-5-methyl-cyclohexanone, cis 5-Methyl-2-(1-methylethyl)cyclohexanone, (Z)- «alpha»-Isomenthone cis-5-Methyl-2-(1-methylethyl)-cyclohexanone Isomenthon cis-Menthone cis-p-Menthone (2R,5R)-2-isopropyl-5-methylcyclohexanone, rel- Cyclohexanone, 5-methyl-2-(1-methylethyl)-, (2R,5R)-rel- dl-Isomenthone
<b>Inchi:</b>	InChI=1S/C10H18O/c1-7(2)9-5-4-8(3)6-10(9)11/h7-9H,4-6H2,1-3H3/t8-,9-/m1/s1
<b>InchiKey:</b>	NFLGAXVYCFJBMK-RKDXNWHRSA-N
<b>Formula:</b>	C10H18O
<b>SMILES:</b>	CC1CCC(C(C)C)C(=O)C1
<b>Mol. weight [g/mol]:</b>	154.25
<b>CAS:</b>	491-07-6

## Physical Properties

Property code	Value	Unit	Source
gf	-74.97	kJ/mol	Joback Method
hf	-358.73	kJ/mol	Joback Method
hfus	10.55	kJ/mol	Joback Method
hvap	41.83	kJ/mol	Joback Method
log10ws	-2.46		Crippen Method
logp	2.648		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	2595.13	kPa	Joback Method
rinpol	1147.00		NIST Webbook
rinpol	1148.00		NIST Webbook
rinpol	1164.00		NIST Webbook
rinpol	1147.00		NIST Webbook
rinpol	1170.00		NIST Webbook

rinpol	1149.00	NIST Webbook
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ripol	1525.00		NIST Webbook
ripol	1508.00		NIST Webbook
ripol	1528.00		NIST Webbook
ripol	1525.00		NIST Webbook
tb	510.46	K	Joback Method

tc	728.68	K	Joback Method
tf	258.82	K	Joback Method
vc	0.528	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	338.98	J/mol×K	510.46	Joback Method
cpg	358.78	J/mol×K	546.83	Joback Method
cpg	377.66	J/mol×K	583.20	Joback Method
cpg	395.62	J/mol×K	619.57	Joback Method
cpg	412.65	J/mol×K	655.94	Joback Method
cpg	428.75	J/mol×K	692.31	Joback Method
cpg	443.91	J/mol×K	728.68	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C491076&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C491076&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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices

<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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