

# Carvone oxide, cis-

<b>Other names:</b>	cis-Carvone oxide
<b>Inchi:</b>	InChI=1S/C10H14O2/c1-6(2)7-4-8(11)10(3)9(5-7)12-10/h7,9H,1,4-5H2,2-3H3/t7-,9+,10-/
<b>InchiKey:</b>	YGMNGQDLUQECTO-SFGNSQDASA-N
<b>Formula:</b>	C10H14O2
<b>SMILES:</b>	<chem>C=C(C)C1CC(=O)C2(C)OC2C1</chem>
<b>Mol. weight [g/mol]:</b>	166.22
<b>CAS:</b>	18383-49-8

## Physical Properties

Property code	Value	Unit	Source
gf	0.10	kJ/mol	Joback Method
hf	-269.45	kJ/mol	Joback Method
hfus	15.50	kJ/mol	Joback Method
hvap	44.56	kJ/mol	Joback Method
log10ws	-2.00		Crippen Method
logp	1.699		Crippen Method
mcvol	133.180	ml/mol	McGowan Method
pc	3059.17	kPa	Joback Method
rinpol	1268.00		NIST Webbook
rinpol	1263.00		NIST Webbook
rinpol	1252.00		NIST Webbook
rinpol	1263.00		NIST Webbook
tb	532.85	K	Joback Method
tc	763.26	K	Joback Method
tf	333.55	K	Joback Method
vc	0.508	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	336.75	J/molxK	532.85	Joback Method
cpg	353.90	J/molxK	571.25	Joback Method
cpg	369.88	J/molxK	609.65	Joback Method
cpg	384.83	J/molxK	648.05	Joback Method

cpg	398.91	J/mol×K	686.46	Joback Method
cpg	412.27	J/mol×K	724.86	Joback Method
cpg	425.06	J/mol×K	763.26	Joback Method

## Sources

<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=C18383498&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C18383498&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>

## 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>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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