

# 2,2,6,6-Tetrakis(chloromethyl)cyclohexanone

<b>Inchi:</b>	InChI=1S/C10H14Cl4O/c11-4-9(5-12)2-1-3-10(6-13,7-14)8(9)15/h1-7H2
<b>InchiKey:</b>	AQIAZQNYXUJNNC-UHFFFAOYSA-N
<b>Formula:</b>	C10H14Cl4O
<b>SMILES:</b>	O=C1C(CCl)(CCl)CCCC1(CCl)CCl
<b>Mol. weight [g/mol]:</b>	292.03

## Physical Properties

Property code	Value	Unit	Source
gf	-131.23	kJ/mol	Joback Method
hf	-385.93	kJ/mol	Joback Method
hfus	18.26	kJ/mol	Joback Method
hvap	57.46	kJ/mol	Joback Method
log10ws	-3.31		Crippen Method
logp	3.667		Crippen Method
mcvol	191.430	ml/mol	McGowan Method
pc	2429.05	kPa	Joback Method
rinsol	2024.00		NIST Webbook
tb	661.10	K	Joback Method
tc	908.18	K	Joback Method
tf	441.30	K	Joback Method
vc	0.727	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	451.19	J/mol×K	661.10	Joback Method
cpg	466.23	J/mol×K	702.28	Joback Method
cpg	480.70	J/mol×K	743.46	Joback Method
cpg	494.86	J/mol×K	784.64	Joback Method
cpg	508.97	J/mol×K	825.82	Joback Method
cpg	523.27	J/mol×K	867.00	Joback Method
cpg	538.02	J/mol×K	908.18	Joback Method

# Sources

<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=R520540&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R520540&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvac:</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>mccol:</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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