

# Cyclohexanone, 2-hydroxy-

<b>Other names:</b>	Adipoin 2-Hydroxycyclohexanone 2-Hydroxy-1-cyclohexanone 2-hydroxycyclohexan-1-one
<b>Inchi:</b>	InChI=1S/C6H10O2/c7-5-3-1-2-4-6(5)8/h5,7H,1-4H2
<b>InchiKey:</b>	ODZTXUXIYGJLMC-UHFFFAOYSA-N
<b>Formula:</b>	C6H10O2
<b>SMILES:</b>	O=C1CCCCC1O
<b>Mol. weight [g/mol]:</b>	114.14
<b>CAS:</b>	533-60-8

## Physical Properties

Property code	Value	Unit	Source
gf	-235.32	kJ/mol	Joback Method
hf	-402.78	kJ/mol	Joback Method
hfus	6.73	kJ/mol	Joback Method
hvap	50.30	kJ/mol	Joback Method
ie	9.70	eV	NIST Webbook
log10ws	-0.88		Crippen Method
logp	0.490		Crippen Method
mcvol	91.980	ml/mol	McGowan Method
pc	4678.49	kPa	Joback Method
rinpol	955.00		NIST Webbook
rinpol	971.00		NIST Webbook
rinpol	955.00		NIST Webbook
ripol	1643.00		NIST Webbook
ripol	1643.00		NIST Webbook
tb	516.23	K	Joback Method
tc	727.75	K	Joback Method
tf	383.00 ± 4.00	K	NIST Webbook
vc	0.331	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	213.57	J/mol×K	516.23	Joback Method
cpg	225.96	J/mol×K	551.48	Joback Method
cpg	237.79	J/mol×K	586.74	Joback Method
cpg	249.05	J/mol×K	621.99	Joback Method
cpg	259.74	J/mol×K	657.24	Joback Method
cpg	269.84	J/mol×K	692.49	Joback Method
cpg	279.34	J/mol×K	727.75	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=C533608&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C533608&amp;Units=SI</a>
<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>

## 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>ie:</b>	Ionization energy
<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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