

# 2-Cyclohexen-1-one, 4-hydroxy-

<b>Other names:</b>	4-Hydroxy-2-cyclohexen-1-one
<b>Inchi:</b>	InChI=1S/C6H8O2/c7-5-1-2-6(8)4-3-5/h1-2,5,7H,3-4H2
<b>InchiKey:</b>	AMFCFGFZMSQOIU-UHFFFAOYSA-N
<b>Formula:</b>	C6H8O2
<b>SMILES:</b>	O=C1C=CC(O)CC1
<b>Mol. weight [g/mol]:</b>	112.13
<b>CAS:</b>	30182-12-8

## Physical Properties

Property code	Value	Unit	Source
gf	-205.36	kJ/mol	Joback Method
hf	-345.00	kJ/mol	Joback Method
hfus	7.95	kJ/mol	Joback Method
hvap	50.60	kJ/mol	Joback Method
log10ws	-0.74		Crippen Method
logp	0.266		Crippen Method
mcvol	87.680	ml/mol	McGowan Method
pc	4917.69	kPa	Joback Method
ripol	2277.00		NIST Webbook
tb	515.39	K	Joback Method
tc	729.00	K	Joback Method
tf	294.56	K	Joback Method
vc	0.317	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	196.14	J/molxK	515.39	Joback Method
cpg	207.28	J/molxK	550.99	Joback Method
cpg	217.90	J/molxK	586.59	Joback Method
cpg	227.99	J/molxK	622.20	Joback Method
cpg	237.55	J/molxK	657.80	Joback Method
cpg	246.56	J/molxK	693.40	Joback Method
cpg	255.02	J/molxK	729.00	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=C30182128&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C30182128&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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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