

# Cyclohexanol, 1-(tetrahydro-4-pyranyl)-

<b>Inchi:</b>	InChI=1S/C11H20O2/c12-11(6-2-1-3-7-11)10-4-8-13-9-5-10/h10,12H,1-9H2
<b>InchiKey:</b>	GSFRPJXSGHYFIY-UHFFFAOYSA-N
<b>Formula:</b>	C11H20O2
<b>SMILES:</b>	OC1(C2CCOCC2)CCCCC1
<b>Mol. weight [g/mol]:</b>	184.28
<b>CAS:</b>	27070-20-8

## Physical Properties

Property code	Value	Unit	Source
gf	-137.79	kJ/mol	Joback Method
hf	-430.72	kJ/mol	Joback Method
hfus	13.69	kJ/mol	Joback Method
hvap	60.98	kJ/mol	Joback Method
log10ws	-2.44		Crippen Method
logp	2.108		Crippen Method
mcvol	155.870	ml/mol	McGowan Method
pc	3318.18	kPa	Joback Method
tb	609.55	K	Joback Method
tc	833.37	K	Joback Method
tf	339.78	K	Joback Method
vc	0.555	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	440.77	J/molxK	609.55	Joback Method
cpg	460.14	J/molxK	646.85	Joback Method
cpg	478.29	J/molxK	684.16	Joback Method
cpg	495.37	J/molxK	721.46	Joback Method
cpg	511.52	J/molxK	758.77	Joback Method
cpg	526.85	J/molxK	796.07	Joback Method
cpg	541.52	J/molxK	833.37	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=C27070208&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C27070208&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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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