

# Tetrahydropyran-4-carboxylic acid

<b>Inchi:</b>	InChI=1S/C6H10O3/c7-6(8)5-1-3-9-4-2-5/h5H,1-4H2,(H,7,8)
<b>InchiKey:</b>	AVPKHOTUOHDTLW-UHFFFAOYSA-N
<b>Formula:</b>	C6H10O3
<b>SMILES:</b>	O=C(O)C1CCOCC1
<b>Mol. weight [g/mol]:</b>	130.14
<b>CAS:</b>	5337-03-1

## Physical Properties

Property code	Value	Unit	Source
gf	-327.77	kJ/mol	Joback Method
hf	-509.66	kJ/mol	Joback Method
hfus	16.80	kJ/mol	Joback Method
hvap	57.31	kJ/mol	Joback Method
log10ws	-0.17		Crippen Method
logp	0.498		Crippen Method
mcvol	97.850	ml/mol	McGowan Method
pc	4802.50	kPa	Joback Method
tb	529.23	K	Joback Method
tc	733.31	K	Joback Method
tf	302.08	K	Joback Method
vc	0.350	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	234.02	J/molxK	529.23	Joback Method
cpg	245.51	J/molxK	563.24	Joback Method
cpg	256.35	J/molxK	597.26	Joback Method
cpg	266.57	J/molxK	631.27	Joback Method
cpg	276.17	J/molxK	665.29	Joback Method
cpg	285.18	J/molxK	699.30	Joback Method
cpg	293.61	J/molxK	733.31	Joback Method
dvisc	0.0171361	Paxs	302.08	Joback Method
dvisc	0.0052818	Paxs	339.94	Joback Method

dvisc	0.0020611	Paxs	377.80	Joback Method
dvisc	0.0009547	Paxs	415.65	Joback Method
dvisc	0.0005028	Paxs	453.51	Joback Method
dvisc	0.0002923	Paxs	491.37	Joback Method
dvisc	0.0001837	Paxs	529.23	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=C5337031&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5337031&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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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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