

# 1,2-Cyclohexanediol, 1-methyl-, trans-

<b>Other names:</b>	trans-1-Methyl-1,2-Cyclohexanediol
<b>Inchi:</b>	InChI=1S/C7H14O2/c1-7(9)5-3-2-4-6(7)8/h6,8-9H,2-5H2,1H3/t6-,7-/m1/s1
<b>InchiKey:</b>	IOZFUGDROBQPNP-RNFRBKRXSA-N
<b>Formula:</b>	C7H14O2
<b>SMILES:</b>	CC1(O)CCCCC1O
<b>Mol. weight [g/mol]:</b>	130.18
<b>CAS:</b>	19534-08-8

## Physical Properties

Property code	Value	Unit	Source
chs	-4157.00 ± 0.40	kJ/mol	NIST Webbook
gf	-254.33	kJ/mol	Joback Method
hf	-443.05	kJ/mol	Joback Method
hfus	8.67	kJ/mol	Joback Method
hvap	63.50	kJ/mol	Joback Method
log10ws	-1.40		Crippen Method
logp	0.672		Crippen Method
mcvol	110.370	ml/mol	McGowan Method
pc	4510.35	kPa	Joback Method
tb	559.04	K	Joback Method
tc	748.16	K	Joback Method
tf	317.33	K	Joback Method
vc	0.396	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	285.80	J/molxK	559.04	Joback Method
cpg	297.47	J/molxK	590.56	Joback Method
cpg	308.51	J/molxK	622.08	Joback Method
cpg	318.98	J/molxK	653.60	Joback Method
cpg	328.96	J/molxK	685.12	Joback Method
cpg	338.52	J/molxK	716.64	Joback Method
cpg	347.72	J/molxK	748.16	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C19534088&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19534088&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>
<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>

# Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<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>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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