

# 1,3,5-Pentanetriol

<b>Inchi:</b>	InChI=1S/C5H12O3/c6-3-1-5(8)2-4-7/h5-8H,1-4H2
<b>InchiKey:</b>	LMMTVYUCEFJZLC-UHFFFAOYSA-N
<b>Formula:</b>	C5H12O3
<b>SMILES:</b>	OCCC(O)CCO
<b>Mol. weight [g/mol]:</b>	120.15
<b>CAS:</b>	4328-94-3

## Physical Properties

Property code	Value	Unit	Source
gf	-421.68	kJ/mol	Joback Method
hf	-608.50	kJ/mol	Joback Method
hfus	17.45	kJ/mol	Joback Method
hvap	76.37	kJ/mol	Joback Method
log10ws	0.18		Crippen Method
logp	-0.888		Crippen Method
mcvol	98.920	ml/mol	McGowan Method
pc	5001.51	kPa	Joback Method
tb	589.90	K	Joback Method
tc	748.12	K	Joback Method
tf	313.57	K	Joback Method
vc	0.366	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.26	J/molxK	589.90	Joback Method
cpg	262.05	J/molxK	616.27	Joback Method
cpg	268.57	J/molxK	642.64	Joback Method
cpg	274.82	J/molxK	669.01	Joback Method
cpg	280.81	J/molxK	695.38	Joback Method
cpg	286.54	J/molxK	721.75	Joback Method
cpg	292.03	J/molxK	748.12	Joback Method
dvisc	0.1188974	Paxs	313.57	Joback Method
dvisc	0.0103489	Paxs	359.62	Joback Method

dvisc	0.0015680	Paxs	405.68	Joback Method
dvisc	0.0003491	Paxs	451.74	Joback Method
dvisc	0.0001026	Paxs	497.79	Joback Method
dvisc	0.0000371	Paxs	543.85	Joback Method
dvisc	0.0000157	Paxs	589.90	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=C4328943&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4328943&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>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>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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