

# 1,3-Propanediol, ethyl dotriacontyl ether

<b>Inchi:</b>	InChI=1S/C37H76O2/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25
<b>InchiKey:</b>	OXRUMAJOYXFQNW-UHFFFAOYSA-N
<b>Formula:</b>	C37H76O2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCOCCCOCC
<b>Mol. weight [g/mol]:</b>	553.00

## Physical Properties

Property code	Value	Unit	Source
gf	50.66	kJ/mol	Joback Method
hf	-1071.45	kJ/mol	Joback Method
hfus	93.96	kJ/mol	Joback Method
hvap	102.78	kJ/mol	Joback Method
log10ws	-13.48		Crippen Method
logp	13.152		Crippen Method
mcvol	543.930	ml/mol	McGowan Method
pc	433.31	kPa	Joback Method
rinpol	3751.00		NIST Webbook
tb	1090.80	K	Joback Method
tc	1437.49	K	Joback Method
tf	551.21	K	Joback Method
vc	2.143	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2032.95	J/molxK	1090.80	Joback Method
cpg	2069.78	J/molxK	1148.58	Joback Method
cpg	2102.16	J/molxK	1206.36	Joback Method
cpg	2130.46	J/molxK	1264.15	Joback Method
cpg	2155.06	J/molxK	1321.93	Joback Method
cpg	2176.32	J/molxK	1379.71	Joback Method
cpg	2194.61	J/molxK	1437.49	Joback Method
dvisc	0.0001609	Paxs	551.21	Joback Method
dvisc	0.0000576	Paxs	641.14	Joback Method

dvisc	0.0000265	Paxs	731.07	Joback Method
dvisc	0.0000145	Paxs	821.00	Joback Method
dvisc	0.0000089	Paxs	910.94	Joback Method
dvisc	0.0000060	Paxs	1000.87	Joback Method
dvisc	0.0000043	Paxs	1090.80	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=U406361&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406361&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>rinpol:</b>	Non-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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