

# Propyl tetratriacontyl ether

**Inchi:** InChI=1S/C37H76O/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37  
**InchiKey:** DAKVIMRJIWOBPD-UHFFFAOYSA-N  
**Formula:** C37H76O  
**SMILES:** CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCOCCC  
**Mol. weight [g/mol]:** 537.00

## Physical Properties

Property code	Value	Unit	Source
gf	155.66	kJ/mol	Joback Method
hf	-939.23	kJ/mol	Joback Method
hfus	92.77	kJ/mol	Joback Method
hvap	100.37	kJ/mol	Joback Method
log10ws	-14.40		Crippen Method
logp	13.916		Crippen Method
mcvol	538.060	ml/mol	McGowan Method
pc	436.39	kPa	Joback Method
rinpol	3769.00		NIST Webbook
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tb	1068.38	K	Joback Method
tc	1393.61	K	Joback Method
tf	528.98	K	Joback Method
vc	2.126	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1999.53	J/mol×K	1068.38	Joback Method
cpg	2036.87	J/mol×K	1122.58	Joback Method
cpg	2070.58	J/mol×K	1176.79	Joback Method
cpg	2101.02	J/mol×K	1230.99	Joback Method
cpg	2128.55	J/mol×K	1285.20	Joback Method
cpg	2153.52	J/mol×K	1339.40	Joback Method
cpg	2176.29	J/mol×K	1393.61	Joback Method
dvisc	0.0002482	Paxs	528.98	Joback Method

dvisc	0.0000847	Paxs	618.88	Joback Method
dvisc	0.0000379	Paxs	708.78	Joback Method
dvisc	0.0000204	Paxs	798.68	Joback Method
dvisc	0.0000124	Paxs	888.58	Joback Method
dvisc	0.0000083	Paxs	978.48	Joback Method
dvisc	0.0000059	Paxs	1068.38	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=U406288&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406288&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>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>c</sub>vol:</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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