

# Ethyl hexatriacontyl ether

**Inchi:** InChI=1S/C38H78O/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38  
**InchiKey:** KDORDNKGVSLEB-UHFFFAOYSA-N  
**Formula:** C38H78O  
**SMILES:** CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCOCC  
**Mol. weight [g/mol]:** 551.03

## Physical Properties

Property code	Value	Unit	Source
gf	164.08	kJ/mol	Joback Method
hf	-959.87	kJ/mol	Joback Method
hfus	95.36	kJ/mol	Joback Method
hvap	102.59	kJ/mol	Joback Method
log10ws	-14.82		Crippen Method
logp	14.306		Crippen Method
mvol	552.150	ml/mol	McGowan Method
pc	419.40	kPa	Joback Method
rinpol	3881.00		NIST Webbook
rinpol	3881.00		NIST Webbook
tb	1091.26	K	Joback Method
tc	1440.03	K	Joback Method
tf	540.25	K	Joback Method
vc	2.182	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2069.20	J/molxK	1091.26	Joback Method
cpg	2108.45	J/molxK	1149.39	Joback Method
cpg	2143.65	J/molxK	1207.52	Joback Method
cpg	2175.24	J/molxK	1265.64	Joback Method
cpg	2203.68	J/molxK	1323.77	Joback Method
cpg	2229.43	J/molxK	1381.90	Joback Method
cpg	2252.94	J/molxK	1440.03	Joback Method
dvisc	0.0002129	Paxs	540.25	Joback Method

dvisc	0.0000724	Paxs	632.09	Joback Method
dvisc	0.0000324	Paxs	723.92	Joback Method
dvisc	0.0000174	Paxs	815.75	Joback Method
dvisc	0.0000106	Paxs	907.59	Joback Method
dvisc	0.0000070	Paxs	999.42	Joback Method
dvisc	0.0000050	Paxs	1091.26	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=U406374&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406374&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>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>cvol</sub>:</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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