

# Ethyl triacontyl ether

**Inchi:** InChI=1S/C32H66O/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  
**InchiKey:** FZGSLMSRPRIPGT-UHFFFAOYSA-N  
**Formula:** C32H66O  
**SMILES:** CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCOCC  
**Mol. weight [g/mol]:** 466.87

## Physical Properties

Property code	Value	Unit	Source
gf	113.56	kJ/mol	Joback Method
hf	-836.03	kJ/mol	Joback Method
hfus	79.82	kJ/mol	Joback Method
hvap	89.24	kJ/mol	Joback Method
log10ws	-12.30		Crippen Method
logp	11.966		Crippen Method
mvol	467.610	ml/mol	McGowan Method
pc	539.08	kPa	Joback Method
rinpol	3279.00		NIST Webbook
rinpol	3279.00		NIST Webbook
tb	953.98	K	Joback Method
tc	1192.42	K	Joback Method
tf	472.63	K	Joback Method
vc	1.845	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1654.49	J/molxK	953.98	Joback Method
cpg	1684.24	J/molxK	993.72	Joback Method
cpg	1711.87	J/molxK	1033.46	Joback Method
cpg	1737.51	J/molxK	1073.20	Joback Method
cpg	1761.29	J/molxK	1112.94	Joback Method
cpg	1783.31	J/molxK	1152.68	Joback Method
cpg	1803.69	J/molxK	1192.42	Joback Method
dvisc	0.0005211	Paxs	472.63	Joback Method

dvisc	0.0001809	Paxs	552.86	Joback Method
dvisc	0.0000821	Paxs	633.08	Joback Method
dvisc	0.0000445	Paxs	713.31	Joback Method
dvisc	0.0000273	Paxs	793.53	Joback Method
dvisc	0.0000183	Paxs	873.76	Joback Method
dvisc	0.0000132	Paxs	953.98	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U406371&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406371&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>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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