

# Ethyl hexacosyl ether

**Inchi:** InChI=1S/C28H58O/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100  
**InchiKey:** QIOYHPSNYFSGNQ-UHFFFAOYSA-N  
**Formula:** C28H58O  
**SMILES:** CCCCCCCCCCCCCCCCCCCCCCCCCCCCCOCC  
**Mol. weight [g/mol]:** 410.76

## Physical Properties

Property code	Value	Unit	Source
gf	79.88	kJ/mol	Joback Method
hf	-753.47	kJ/mol	Joback Method
hfus	69.46	kJ/mol	Joback Method
hvap	80.33	kJ/mol	Joback Method
log10ws	-10.63		Crippen Method
logp	10.405		Crippen Method
mvol	411.250	ml/mol	McGowan Method
pc	649.78	kPa	Joback Method
rinpol	2891.00		NIST Webbook
rinpol	2891.00		NIST Webbook
tb	862.46	K	Joback Method
tc	1059.66	K	Joback Method
tf	427.55	K	Joback Method
vc	1.621	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1384.56	J/molxK	862.46	Joback Method
cpg	1410.17	J/molxK	895.33	Joback Method
cpg	1434.34	J/molxK	928.19	Joback Method
cpg	1457.12	J/molxK	961.06	Joback Method
cpg	1478.56	J/molxK	993.93	Joback Method
cpg	1498.72	J/molxK	1026.79	Joback Method
cpg	1517.66	J/molxK	1059.66	Joback Method
dvisc	0.0009084	Paxs	427.55	Joback Method

dvisc	0.0003209	Paxs	500.03	Joback Method
dvisc	0.0001475	Paxs	572.52	Joback Method
dvisc	0.0000808	Paxs	645.00	Joback Method
dvisc	0.0000499	Paxs	717.49	Joback Method
dvisc	0.0000337	Paxs	789.98	Joback Method
dvisc	0.0000243	Paxs	862.46	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U406369&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406369&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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