

# Methyl tetradecyl ether

<b>Inchi:</b>	InChI=1S/C15H32O/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-2/h3-15H2,1-2H3
<b>InchiKey:</b>	WBALMRMHNRFFSSF-UHFFFAOYSA-N
<b>Formula:</b>	C15H32O
<b>SMILES:</b>	CCCCCCCCCCCCCO
<b>Mol. weight [g/mol]:</b>	228.41

## Physical Properties

Property code	Value	Unit	Source
gf	-29.58	kJ/mol	Joback Method
hf	-485.15	kJ/mol	Joback Method
hfus	35.79	kJ/mol	Joback Method
hvap	51.39	kJ/mol	Joback Method
log10ws	-5.19		Crippen Method
logp	5.334		Crippen Method
mcvol	228.080	ml/mol	McGowan Method
pc	1397.50	kPa	Joback Method
rinsol	1632.00		NIST Webbook
tb	565.02	K	Joback Method
tc	724.37	K	Joback Method
tf	281.04	K	Joback Method
vc	0.893	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	589.19	J/molxK	565.02	Joback Method
cpg	607.53	J/molxK	591.58	Joback Method
cpg	625.19	J/molxK	618.14	Joback Method
cpg	642.19	J/molxK	644.69	Joback Method
cpg	658.53	J/molxK	671.25	Joback Method
cpg	674.23	J/molxK	697.81	Joback Method
cpg	689.31	J/molxK	724.37	Joback Method
dvisc	0.0036349	Paxs	281.04	Joback Method
dvisc	0.0014111	Paxs	328.37	Joback Method

dvisc	0.0006953	Paxs	375.70	Joback Method
dvisc	0.0004014	Paxs	423.03	Joback Method
dvisc	0.0002588	Paxs	470.36	Joback Method
dvisc	0.0001808	Paxs	517.69	Joback Method
dvisc	0.0001341	Paxs	565.02	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U406291&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406291&amp;Units=SI</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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