

# Ethanol, 2-(hexadecyloxy)-

**Other names:**

2-Hexadecoxyethanol  
2-Hexadecyloxyethanol  
Ethylene glycol monohexadecyl ether

**Inchi:** InChI=1S/C18H38O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-17-20-18-16-19/h19H,2-18H**InchiKey:** FSAMVJAGJWGWWTQ-UHFFFAOYSA-N**Formula:** C18H38O2**SMILES:** CCCCCCCCCCCCCCCCCOCCO**Mol. weight [g/mol]:** 286.49**CAS:** 2136-71-2

## Physical Properties

Property code	Value	Unit	Source
gf	-141.14	kJ/mol	Joback Method
hf	-699.30	kJ/mol	Joback Method
hfus	47.65	kJ/mol	Joback Method
hvap	74.75	kJ/mol	Joback Method
log10ws	-5.71		Crippen Method
logp	5.477		Crippen Method
mcvol	276.220	ml/mol	McGowan Method
pc	1213.20	kPa	Joback Method
tb	725.84	K	Joback Method
tc	892.08	K	Joback Method
tf	315.90 ± 0.25	K	NIST Webbook
vc	1.081	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	921.90	J/molxK	864.37	Joback Method
cpg	936.13	J/molxK	892.08	Joback Method
cpg	839.62	J/molxK	725.84	Joback Method
cpg	857.62	J/molxK	753.55	Joback Method
cpg	874.83	J/molxK	781.25	Joback Method
cpg	891.27	J/molxK	808.96	Joback Method

cpg	906.95	J/molxK	836.67	Joback Method
dvisc	0.0000328	Paxs	667.48	Joback Method
dvisc	0.0000206	Paxs	725.84	Joback Method
dvisc	0.0028831	Paxs	375.67	Joback Method
dvisc	0.0007275	Paxs	434.03	Joback Method
dvisc	0.0002545	Paxs	492.39	Joback Method
dvisc	0.0001112	Paxs	550.75	Joback Method
dvisc	0.0000569	Paxs	609.12	Joback Method
hfust	37.32	kJ/mol	318.50	NIST Webbook
hfust	14.94	kJ/mol	311.70	NIST Webbook
hfust	37.32	kJ/mol	318.50	NIST Webbook
sfust	117.20	J/molxK	318.50	NIST Webbook
sfust	47.93	J/molxK	311.70	NIST Webbook

## Sources

<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=C2136712&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2136712&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>hfust:</b>	Enthalpy of fusion at a given temperature
<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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>sfust:</b>	Entropy of fusion at a given temperature
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/22-548-9/Ethanol-2-hexadecyloxy.pdf>

Generated by Cheméo on 2024-04-28 19:30:19.063136197 +0000 UTC m=+16621867.983713512.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.