

# Ethanol, 2-(dodecyloxy)-

<b>Other names:</b>	Ethylene glycol monododecyl ether Ethylene glycol monolauryl ether Laureth-1 Lauryl alcohol oxy ethanol Lauryl ethoxylate Lauryl monoethoxylate Lipocol L-1 2-(Dodecyloxy)ethanol Ethylene glycol mono-n-dodecyl ether 2-Hydroxyethyl lauryl ether
<b>Inchi:</b>	InChI=1S/C14H30O2/c1-2-3-4-5-6-7-8-9-10-11-13-16-14-12-15/h15H,2-14H2,1H3
<b>InchiKey:</b>	SFNALCNOMXIBKG-UHFFFAOYSA-N
<b>Formula:</b>	C14H30O2
<b>SMILES:</b>	CCCCCCCCCCCCOCCO
<b>Mol. weight [g/mol]:</b>	230.39
<b>CAS:</b>	4536-30-5

## Physical Properties

Property code	Value	Unit	Source
gf	-174.82	kJ/mol	Joback Method
hf	-616.74	kJ/mol	Joback Method
hfus	37.29	kJ/mol	Joback Method
hvap	65.85	kJ/mol	Joback Method
log10ws	-4.03		Crippen Method
logp	3.916		Crippen Method
mcvol	219.860	ml/mol	McGowan Method
pc	1616.77	kPa	Joback Method
tb	634.32	K	Joback Method
tc	793.46	K	Joback Method
tf	330.59	K	Joback Method
vc	0.857	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	612.24	J/molxK	634.32	Joback Method
cpg	627.96	J/molxK	660.84	Joback Method
cpg	643.05	J/molxK	687.37	Joback Method
cpg	657.54	J/molxK	713.89	Joback Method
cpg	671.44	J/molxK	740.41	Joback Method
cpg	684.76	J/molxK	766.94	Joback Method
cpg	697.51	J/molxK	793.46	Joback Method
dvisc	0.0066460	Paxs	330.59	Joback Method
dvisc	0.0016488	Paxs	381.21	Joback Method
dvisc	0.0005672	Paxs	431.83	Joback Method
dvisc	0.0002441	Paxs	482.45	Joback Method
dvisc	0.0001233	Paxs	533.08	Joback Method
dvisc	0.0000701	Paxs	583.70	Joback Method
dvisc	0.0000436	Paxs	634.32	Joback Method
hvapt	71.50	kJ/mol	440.50	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C4536305&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4536305&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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

**tb:** Normal Boiling Point Temperature  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/66-856-9/Ethanol-2-dodecyloxy.pdf>

Generated by Cheméo on 2024-04-28 08:16:15.604574356 +0000 UTC m=+16581424.525151666.

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