

# Ethanol, 2-(eicosyloxy)-

<b>Other names:</b>	2-Eicosanoxyethanol 2-Eicosyloxyethanol
<b>Inchi:</b>	InChI=1S/C22H46O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-21-24-22-20-23
<b>InchiKey:</b>	WLDSAHIJFBDEMS-UHFFFAOYSA-N
<b>Formula:</b>	C22H46O2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCOCCO
<b>Mol. weight [g/mol]:</b>	342.60
<b>CAS:</b>	2136-73-4

## Physical Properties

Property code	Value	Unit	Source
gf	-107.46	kJ/mol	Joback Method
hf	-781.86	kJ/mol	Joback Method
hfus	58.01	kJ/mol	Joback Method
hvap	83.66	kJ/mol	Joback Method
log10ws	-7.38		Crippen Method
logp	7.037		Crippen Method
mcvol	332.580	ml/mol	McGowan Method
pc	943.84	kPa	Joback Method
tb	817.36	K	Joback Method
tc	1001.14	K	Joback Method
tf	333.00 ± 0.25	K	NIST Webbook
vc	1.304	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1083.68	J/mol×K	817.36	Joback Method
cpg	1104.30	J/mol×K	847.99	Joback Method
cpg	1123.85	J/mol×K	878.62	Joback Method
cpg	1142.36	J/mol×K	909.25	Joback Method
cpg	1159.88	J/mol×K	939.88	Joback Method
cpg	1176.44	J/mol×K	970.51	Joback Method
cpg	1192.07	J/mol×K	1001.14	Joback Method

dvisc	0.0012709	Paxs	420.75	Joback Method
dvisc	0.0003252	Paxs	486.85	Joback Method
dvisc	0.0001153	Paxs	552.95	Joback Method
dvisc	0.0000510	Paxs	619.06	Joback Method
dvisc	0.0000264	Paxs	685.16	Joback Method
dvisc	0.0000154	Paxs	751.26	Joback Method
dvisc	0.0000097	Paxs	817.36	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=C2136734&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2136734&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>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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