

# 2-Hydroxyethyl heptadecanoate

<b>Inchi:</b>	InChI=1S/C19H38O3/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-19(21)22-18-17-20/h20H
<b>InchiKey:</b>	VGDYDZQOBURK-UHFFFAOYSA-N
<b>Formula:</b>	C19H38O3
<b>SMILES:</b>	CCCCCCCCCCCCCCCC(=O)OCCO
<b>Mol. weight [g/mol]:</b>	314.50

## Physical Properties

Property code	Value	Unit	Source
gf	-261.64	kJ/mol	Joback Method
hf	-832.52	kJ/mol	Joback Method
hfus	51.84	kJ/mol	Joback Method
hvap	83.72	kJ/mol	Joback Method
log10ws	-5.90		Crippen Method
logp	5.393		Crippen Method
mvol	291.880	ml/mol	McGowan Method
pc	1185.79	kPa	Joback Method
rinpol	2326.00		NIST Webbook
rinpol	2326.00		NIST Webbook
tb	802.59	K	Joback Method
tc	982.99	K	Joback Method
tf	436.87	K	Joback Method
vc	1.143	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	926.26	J/molxK	802.59	Joback Method
cpg	943.86	J/molxK	832.66	Joback Method
cpg	960.54	J/molxK	862.72	Joback Method
cpg	976.33	J/molxK	892.79	Joback Method
cpg	991.25	J/molxK	922.86	Joback Method
cpg	1005.33	J/molxK	952.93	Joback Method
cpg	1018.60	J/molxK	982.99	Joback Method
dvisc	0.0011580	Paxs	436.87	Joback Method

dvisc	0.0003581	Paxs	497.82	Joback Method
dvisc	0.0001431	Paxs	558.78	Joback Method
dvisc	0.0000685	Paxs	619.73	Joback Method
dvisc	0.0000374	Paxs	680.68	Joback Method
dvisc	0.0000225	Paxs	741.64	Joback Method
dvisc	0.0000147	Paxs	802.59	Joback Method

## Sources

<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=R540480&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R540480&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>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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