

# (E)3-Octadecen-1-ol

Inchi:	InChI=1S/C18H36O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19/h15-16,19H,2-14
InchiKey:	CJKFQRHVRXHKIH-FOCLMDBBSA-N
Formula:	C18H36O
SMILES:	CCCCCCCCCCCCC=CCCO
Mol. weight [g/mol]:	268.48

## Physical Properties

Property code	Value	Unit	Source
gf	44.08	kJ/mol	Joback Method
hf	-449.86	kJ/mol	Joback Method
hfus	46.67	kJ/mol	Joback Method
hvap	72.30	kJ/mol	Joback Method
log10ws	-6.47		Crippen Method
logp	6.016		Crippen Method
mvol	266.050	ml/mol	McGowan Method
pc	1273.69	kPa	Joback Method
rinpol	2065.00		NIST Webbook
ripol	2089.00		NIST Webbook
tb	707.58	K	Joback Method
tc	874.01	K	Joback Method
tf	348.36	K	Joback Method
vc	1.042	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	785.17	J/molxK	707.58	Joback Method
cpg	802.67	J/molxK	735.32	Joback Method
cpg	819.41	J/molxK	763.06	Joback Method
cpg	835.41	J/molxK	790.79	Joback Method
cpg	850.72	J/molxK	818.53	Joback Method
cpg	865.37	J/molxK	846.27	Joback Method
cpg	879.39	J/molxK	874.01	Joback Method
dvisc	0.0053551	Paxs	348.36	Joback Method

dvisc	0.0011274	Paxs	408.23	Joback Method
dvisc	0.0003536	Paxs	468.10	Joback Method
dvisc	0.0001442	Paxs	527.97	Joback Method
dvisc	0.0000706	Paxs	587.84	Joback Method
dvisc	0.0000395	Paxs	647.71	Joback Method
dvisc	0.0000243	Paxs	707.58	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=R77856&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R77856&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>ripol:</b>	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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