

# (Z)-15-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/h3-4,19H,2,5-18
InchiKey:	KQYJOJHRIVABRB-ARJAWSKDSA-N
Formula:	C18H36O
SMILES:	CCC=CCCCCCCCCCCCCCC
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
mcvol	266.050	ml/mol	McGowan Method
pc	1273.69	kPa	Joback Method
rinpol	2087.00		NIST Webbook
rinpol	2087.00		NIST Webbook
ripol	2150.00		NIST Webbook
ripol	2150.00		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/mol×K	707.58	Joback Method
cpg	865.37	J/mol×K	846.27	Joback Method
cpg	850.72	J/mol×K	818.53	Joback Method
cpg	835.41	J/mol×K	790.79	Joback Method
cpg	819.41	J/mol×K	763.06	Joback Method
cpg	802.67	J/mol×K	735.32	Joback Method

cpg	879.39	J/molxK	874.01	Joback Method
dvisc	0.0000243	Paxs	707.58	Joback Method
dvisc	0.0000395	Paxs	647.71	Joback Method
dvisc	0.0000706	Paxs	587.84	Joback Method
dvisc	0.0001442	Paxs	527.97	Joback Method
dvisc	0.0003536	Paxs	468.10	Joback Method
dvisc	0.0011274	Paxs	408.23	Joback Method
dvisc	0.0053551	Paxs	348.36	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R571805&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R571805&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>
<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>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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