

# 9-Hexadecen-1-ol, (Z)-

<b>Other names:</b>	Z-9-Hexadecen-1-ol (9Z)-9-Hexadecen-1-ol 9-Hexadecenol, Z (Z)-hexadec-9-en-1-ol
<b>Inchi:</b>	InChI=1S/C16H32O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17/h7-8,17H,2-6,9-16H2,1
<b>InchiKey:</b>	LBIYNOAMNIKVKF-FPLPWBNSA-N
<b>Formula:</b>	C16H32O
<b>SMILES:</b>	CCCCCCC=CCCCCCCCO
<b>Mol. weight [g/mol]:</b>	240.42
<b>CAS:</b>	10378-01-5

## Physical Properties

Property code	Value	Unit	Source
gf	27.24	kJ/mol	Joback Method
hf	-408.58	kJ/mol	Joback Method
hfus	41.49	kJ/mol	Joback Method
hvap	110.60	kJ/mol	NIST Webbook
log10ws	-5.64		Crippen Method
logp	5.236		Crippen Method
mcvol	237.870	ml/mol	McGowan Method
pc	1467.98	kPa	Joback Method
rinpol	1863.00		NIST Webbook
rinpol	1863.00		NIST Webbook
ripol	2413.00		NIST Webbook
tb	661.82	K	Joback Method
tc	825.49	K	Joback Method
tf	325.82	K	Joback Method
vc	0.930	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	671.38	J/molxK	661.82	Joback Method
cpg	746.95	J/molxK	798.21	Joback Method

cpg	733.13	J/molxK	770.94	Joback Method
cpg	718.68	J/molxK	743.66	Joback Method
cpg	703.60	J/molxK	716.38	Joback Method
cpg	687.84	J/molxK	689.10	Joback Method
cpg	760.19	J/molxK	825.49	Joback Method
dvisc	0.0000351	Paxs	661.82	Joback Method
dvisc	0.0000572	Paxs	605.82	Joback Method
dvisc	0.0001033	Paxs	549.82	Joback Method
dvisc	0.0002133	Paxs	493.82	Joback Method
dvisc	0.0005297	Paxs	437.82	Joback Method
dvisc	0.0017184	Paxs	381.82	Joback Method
dvisc	0.0083536	Paxs	325.82	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=C10378015&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C10378015&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

**vc:** Critical Volume

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