

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

## Other names:

( Z)-9-octadecenol  
(9Z)-9-Octadecen-1-ol  
(Z)-9-Octadecen-1-ol  
(Z)-octadec-9-enol  
9-Octadecen-1-ol  
9-Octadecen-1-ol, (9Z)-  
9-Octadecen-1-ol, cis-  
Adol 320  
Adol 330  
Adol 34  
Adol 340  
Adol 80  
Adol 85  
Adol 90  
Anjecol 90N  
Anjecol 90NR  
Atalco O  
Cachalot O-1  
Cachalot O-15  
Cachalot O-3  
Cachalot O-8  
Conditioner 1  
Crodacol A.10  
Crodacol-O  
Dermaffine  
Emery 3312  
Emery 3317  
Fancol OA-95  
H.D. eutanol  
HD oleyl alcohol 70/75  
HD oleyl alcohol 80/85  
HD oleyl alcohol 90/95  
HD oleyl alcohol CG  
HD-Echelon 90/95  
HD-Eutanol  
HD-Ocenol 90/95  
HD-Ocenol K  
Lancol  
Lipocol O  
Loxanol 95

Loxanol M  
 Novol  
 Ocenol  
 Oceol  
 Octadec-9-en-1-ol  
 Octadec-9-en-1-ol, (Z)-  
 Octadec-9Z-enol  
 Octadeca-9-cis-en-1-ol  
 Oleic alcohol  
 Oleo alcohol  
 Oleol  
 Oleyl alcohol  
 Olive alcohol  
 Satol  
 Sipol O  
 Siponol OC  
 Unjocol 110  
 Unjocol 50  
 Unjocol 70  
 Unjocol 90  
 Unjocol 90N  
 Unjocol 90NR  
 cis-9-Octadecen-1-ol  
 cis-9-Octadecenyl Alcohol  
 cis-«DELTA»9-Octadecenol  
 cis-Â«DELTAÂ»9-Octadecenol

**Inchi:** InChI=1S/C18H36O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19/h9-10,19H,2-8,11-18H2  
**InchiKey:** ALSTYHKOOCCGGFT-KTKRTIGZSA-N  
**Formula:** C18H36O  
**SMILES:** CCCCCCCC=CCCCCCCCO  
**Mol. weight [g/mol]:** 268.48  
**CAS:** 143-28-2

## 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	119.30	kJ/mol	NIST Webbook

log10ws	-6.47		Crippen Method
logp	6.016		Crippen Method
mcvol	266.050	ml/mol	McGowan Method
pc	1273.69	kPa	Joback Method
rinpol	2066.00		NIST Webbook
rinpol	2060.00		NIST Webbook
rinpol	2068.80		NIST Webbook
rinpol	2060.00		NIST Webbook
ripol	2116.00		NIST Webbook
tb	707.58	K	Joback Method
tc	874.01	K	Joback Method
tf	273.15 ± 3.00	K	NIST Webbook
tf	309.00 ± 2.00	K	NIST Webbook
tf	272.15	K	The manufacture of organic carbonate-poly(methyl ethylacrylate) nanowebs with thermal buffering effect
vc	1.042	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	879.39	J/molxK	874.01	Joback Method
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
dvisc	0.0000243	Paxs	707.58	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
pvap	2.00	kPa	480.05	Phase equilibria of liquid (water + butyric acid + oleyl alcohol) ternary system

rfi

1.46030

293.15

Liquid phase equilibria of (water + propionic acid + oleyl alcohol) ternary system at several temperatures

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	480.20	K	1.70	NIST Webbook
tbrp	480.00	K	1.70	NIST Webbook
tbrp	480.70	K	2.00	NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.50364e+01
Coeff. B	-5.53733e+03
Coeff. C	-1.18278e+02
Temperature range (K), min.	493.72
Temperature range (K), max.	687.67

## Sources

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

The manufacture of organic carbonate-poly(methyl ethylacrylate) handbooks thermal buffering

<https://www.doi.org/10.1016/j.tca.2017.10.003>

effect: Phase equilibria of liquid (water + butyric acid + oleyl alcohol) ternary system

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C143282&Units=SI>

<https://www.doi.org/10.1016/j.jct.2006.03.017>

<http://link.springer.com/article/10.1007/BF02311772>

(Liquid + liquid) phase equilibria for (water + 2,3-butanediol + oleyl alcohol) The Yaws Handbook of Vapor Pressure: Equations, Tables, and Charts

<https://www.doi.org/10.1016/j.jct.2008.10.004>

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

Crippen Method:

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

Liquid phase equilibria of (water + propionic acid + oleyl alcohol) ternary system at several temperatures:  
Joback Method

<https://www.doi.org/10.1016/j.fluid.2006.10.005>

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

## 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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>pvap:</b>	Vapor pressure
<b>rfi:</b>	Refractive Index
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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