

# 10-Nonadecanol

<b>Other names:</b>	nonadecan-10-ol
<b>Inchi:</b>	InChI=1S/C19H40O/c1-3-5-7-9-11-13-15-17-19(20)18-16-14-12-10-8-6-4-2/h19-20H,3-18H
<b>InchiKey:</b>	ACMBVSPXQQUNOF-UHFFFAOYSA-N
<b>Formula:</b>	C19H40O
<b>SMILES:</b>	CCCCCCCCC(O)CCCCCCCCC
<b>Mol. weight [g/mol]:</b>	284.52
<b>CAS:</b>	16840-84-9

## Physical Properties

Property code	Value	Unit	Source
gf	-30.16	kJ/mol	Joback Method
hf	-593.00	kJ/mol	Joback Method
hfus	45.53	kJ/mol	Joback Method
hvap	74.18	kJ/mol	Joback Method
log10ws	-7.15		Crippen Method
logp	6.629		Crippen Method
mcvol	284.440	ml/mol	McGowan Method
pc	1155.35	kPa	Joback Method
tb	725.86	K	Joback Method
tc	892.78	K	Joback Method
tf	349.71	K	Joback Method
vc	1.113	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	867.16	J/molxK	725.86	Joback Method
cpg	885.88	J/molxK	753.68	Joback Method
cpg	903.78	J/molxK	781.50	Joback Method
cpg	920.87	J/molxK	809.32	Joback Method
cpg	937.19	J/molxK	837.14	Joback Method
cpg	952.77	J/molxK	864.96	Joback Method
cpg	967.63	J/molxK	892.78	Joback Method
dvisc	0.0066420	Paxs	349.71	Joback Method

dvisc	0.0012422	Paxs	412.40	Joback Method
dvisc	0.0003616	Paxs	475.09	Joback Method
dvisc	0.0001404	Paxs	537.79	Joback Method
dvisc	0.0000664	Paxs	600.48	Joback Method
dvisc	0.0000362	Paxs	663.17	Joback Method
dvisc	0.0000219	Paxs	725.86	Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.53415e+01
Coeff. B	-5.54614e+03
Coeff. C	-1.12940e+02
Temperature range (K), min.	481.36
Temperature range (K), max.	665.90

## 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=C16840849&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16840849&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</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>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>pvap:</b>	Vapor pressure
<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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