

# 2-Eicosanol

<b>Other names:</b>	1-Methyl-1-nonadecanol
<b>Inchi:</b>	InChI=1S/C20H42O/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20(2)21/h20-21H,3
<b>InchiKey:</b>	RHEVFAMQJMWLFS-UHFFFAOYSA-N
<b>Formula:</b>	C20H42O
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCC(C)O
<b>Mol. weight [g/mol]:</b>	298.55
<b>CAS:</b>	4340-76-5

## Physical Properties

Property code	Value	Unit	Source
gf	-21.74	kJ/mol	Joback Method
hf	-613.64	kJ/mol	Joback Method
hfus	48.12	kJ/mol	Joback Method
hvap	76.41	kJ/mol	Joback Method
log10ws	-7.57		Crippen Method
logp	7.019		Crippen Method
mcvol	298.530	ml/mol	McGowan Method
pc	1083.49	kPa	Joback Method
tb	748.74	K	Joback Method
tc	918.70	K	Joback Method
tf	360.98	K	Joback Method
vc	1.169	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	927.34	J/molxK	748.74	Joback Method
cpg	1015.33	J/molxK	890.37	Joback Method
cpg	999.36	J/molxK	862.05	Joback Method
cpg	982.61	J/molxK	833.72	Joback Method
cpg	965.04	J/molxK	805.39	Joback Method
cpg	946.63	J/molxK	777.07	Joback Method
cpg	1030.55	J/molxK	918.70	Joback Method
dvisc	0.0000181	Paxs	748.74	Joback Method

dvisc	0.0000299	Paxs	684.11	Joback Method
dvisc	0.0000546	Paxs	619.49	Joback Method
dvisc	0.0001147	Paxs	554.86	Joback Method
dvisc	0.0002932	Paxs	490.23	Joback Method
dvisc	0.0009971	Paxs	425.61	Joback Method
dvisc	0.0052543	Paxs	360.98	Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.59699e+01
Coeff. B	-5.95123e+03
Coeff. C	-1.18834e+02
Temperature range (K), min.	498.32
Temperature range (K), max.	677.19

## Sources

<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=C4340765&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4340765&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>
<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>

## 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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