

2-Nonadecanol

Other names:	nonadecan-2-ol
Inchi:	InChI=1S/C19H40O/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19(2)20/h19-20H,3-18H
InchiKey:	QXYWIOWTBOREM-UHFFFAOYSA-N
Formula:	C19H40O
SMILES:	CCCCCCCCCCCCCCCC(C)O
Mol. weight [g/mol]:	284.52
CAS:	26533-36-8

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 ³ /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	1.56431e+01
Coeff. B	-5.68972e+03
Coeff. C	-1.14066e+02
Temperature range (K), min.	484.60
Temperature range (K), max.	664.78

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C26533368&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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