

9-Nonadecene

Inchi:	InChI=1S/C19H38/c1-3-5-7-9-11-13-15-17-19-18-16-14-12-10-8-6-4-2/h17,19H,3-16,18H
InchiKey:	UTPZTNSPDTWUBY-HTXNQAPBSA-N
Formula:	C19H38
SMILES:	CCCCCCCCC=CCCCCCCCC
Mol. weight [g/mol]:	266.50
CAS:	31035-07-1

Physical Properties

Property code	Value	Unit	Source
gf	189.32	kJ/mol	Joback Method
hf	-318.27	kJ/mol	Joback Method
hfus	45.17	kJ/mol	Joback Method
hvap	57.85	kJ/mol	Joback Method
log10ws	-7.63		Crippen Method
logp	7.434		Crippen Method
mvol	274.270	ml/mol	McGowan Method
pc	1118.56	kPa	Joback Method
rinpol	1880.00		NIST Webbook
rinpol	1893.00		NIST Webbook
ripol	1880.00		NIST Webbook
ripol	1880.00		NIST Webbook
tb	638.28	K	Joback Method
tc	802.08	K	Joback Method
tf	298.81	K	Joback Method
vc	1.079	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	761.42	J/mol×K	638.28	Joback Method
cpg	853.91	J/mol×K	774.78	Joback Method
cpg	836.98	J/mol×K	747.48	Joback Method
cpg	819.30	J/mol×K	720.18	Joback Method
cpg	800.83	J/mol×K	692.88	Joback Method

cpg	781.55	J/mol×K	665.58	Joback Method
cpg	870.11	J/mol×K	802.08	Joback Method
dvisc	0.0000941	Paxs	638.28	Joback Method
dvisc	0.0001291	Paxs	581.70	Joback Method
dvisc	0.0001896	Paxs	525.12	Joback Method
dvisc	0.0003055	Paxs	468.54	Joback Method
dvisc	0.0005614	Paxs	411.97	Joback Method
dvisc	0.0012522	Paxs	355.39	Joback Method
dvisc	0.0037841	Paxs	298.81	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.67376e+01
Coeff. B	-5.85263e+03
Coeff. C	-1.09938e+02
Temperature range (K), min.	465.72
Temperature range (K), max.	622.15

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=C31035071&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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