3-nonen-1-ol

Inchi: InChI=1S/C9H18O/c1-2-3-4-5-6-7-8-9-10/h6-7,10H,2-5,8-9H2,1H3/b7-6+
InchiKey: IFTBJDZSLBRRMC-VOTSOKGWSA-N
Formula: C9H18O
SMILES: CCCCCC=CCCO
Mol. weight [g/mol]: 142.24
CAS: ---

Physical Properties

Property code	Value	Unit	Source
gf	-31.70	kJ/mol	Joback Method
hf	-264.10	kJ/mol	Joback Method
hfus	23.36	kJ/mol	Joback Method
hvap	52.27	kJ/mol	Joback Method
log10ws	-2.71		Crippen Method
logp	2.505		Crippen Method
mcvol	139.240	ml/mol	McGowan Method
pc	2662.52	kPa	Joback Method
rinpol	1157.00		NIST Webbook
rinpol	1157.00		NIST Webbook
ripol	1685.00		NIST Webbook
ripol	1712.00		NIST Webbook
ripol	1712.00		NIST Webbook
ripol	1685.00		NIST Webbook
tb	501.66	K	Joback Method
tc	667.34	K	Joback Method
tf	246.93	K	Joback Method
vc	0.538	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	317.11	J/mol×K	501.66	Joback Method
cpg	329.17	J/mol×K	529.27	Joback Method
cpg	340.72	J/mol×K	556.89	Joback Method

cpg	351.78	J/mol×K	584.50	Joback Method
cpg	362.36	J/mol×K	612.11	Joback Method
cpg	372.49	J/mol×K	639.73	Joback Method
cpg	382.18	J/mol×K	667.34	Joback Method
dvisc	0.0432087	Pa×s	246.93	Joback Method
dvisc	0.0079294	Pa×s	289.38	Joback Method
dvisc	0.0022455	Pa×s	331.84	Joback Method
dvisc	0.0008466	Pa×s	374.30	Joback Method
dvisc	0.0003894	Pa×s	416.75	Joback Method
dvisc	0.0002067	Pa×s	459.21	Joback Method
dvisc	0.0001222	Pa×s	501.66	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.50585e+01
Coeff. B	-4.39676e+03
Coeff. C	-7.68560e+01
Temperature range (K), min.	374.52
Temperature range (K), max.	527.94

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R73595&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/ci990307l

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

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