9-undecen-1-ol

Inchi: InChI=1S/C11H22O/c1-2-3-4-5-6-7-8-9-10-11-12/h2-3,12H,4-11H2,1H3
InchiKey: XWGRSDLPOHMWEO-UHFFFAOYSA-N
Formula: C11H22O
SMILES: CC=CCCCCCCCCO
Mol. weight [g/mol]: 170.30
CAS: 112-46-9

Physical Properties

Property code	Value	Unit	Source
af	0.7560		Cheméo Relay (1.0)
gf	-14.86	kJ/mol	Joback Method
hf	-343.29	kJ/mol	Cheméo Relay (1.0)
hfus	28.54	kJ/mol	Joback Method
hvap	87.15	kJ/mol	Cheméo Relay (1.0)
ie	9.07	eV	Cheméo Relay (1.0)
log10ws	-3.51		Cheméo Relay (1.0)
logp	3.286		Crippen Method
mcvol	167.420	ml/mol	McGowan Method
pc	2204.15	kPa	Joback Method
tb	529.19	K	Cheméo Relay (1.0)
tc	710.80	K	Cheméo Relay (1.0)
tf	284.41	K	Cheméo Relay (1.0)
vc	0.619	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	410.31	J/mol×K	547.42	Joback Method
cpg	483.61	J/mol×K	711.32	Joback Method
cpg	472.68	J/mol×K	684.00	Joback Method
cpg	461.26	J/mol×K	656.68	Joback Method
cpg	449.34	J/mol×K	629.37	Joback Method
cpg	436.89	J/mol×K	602.05	Joback Method
cpg	423.89	J/mol×K	574.74	Joback Method

dvisc	0.0005707	Pa×s	408.45	Joback Method
dvisc	0.0000861	Pa×s	547.42	Joback Method
dvisc	0.0001440	Pa×s	501.10	Joback Method
dvisc	0.0002673	Pa×s	454.77	Joback Method
dvisc	0.0265819	Pa×s	269.47	Joback Method
dvisc	0.0014798	Pa×s	362.12	Joback Method
dvisc	0.0050745	Pa×s	315.80	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.45169e+01
Coeff. B	-4.47498e+03
Coeff. C	-8.60300e+01
Temperature range (K), min.	400.52
Temperature range (K), max.	572.15

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

The Yaws Handbook of Vapor Pressure: https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

Joback Method: https://en.wikipedia.org/wiki/Joback_method

Legend

af: Acentric Factor

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
ie:	Ionization energy
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