10-Undecen-1-ol

Other names:	1-Undecen-11-ol
	10-Undecene-1-ol
	10-Undecenol
	10-Undecylen-1-ol
	11-Hydroxy-1-undecene
	Undec-10-enol
	Undecylenic alcohol
	Undecylenyl alcohol
	undec-10-en-1-ol
	«omega»-Undecenyl alcohol
	«omega»-Undecylenyl alcohol
	Â«omegaÂ»-Undecenyl alcohol
	Â«omegaÂ»-Undecylenyl alcohol
Inchi:	InChI=1S/C11H22O/c1-2-3-4-5-6-7-8-9-10-11-12/h2,12H,1,3-11H2
InchiKey:	GIEMHYCMBGELGY-UHFFFAOYSA-N
Formula:	C11H22O
SMILES:	C=CCCCCCCCCCO
Mol. weight [g/mol]:	170.29
CAS:	112-43-6

Physical Properties

Property code	Value	Unit	Source
gf	-7.24	kJ/mol	Joback Method
hf	-297.17	kJ/mol	Joback Method
hfus	27.05	kJ/mol	Joback Method
hvap	56.09	kJ/mol	Joback Method
log10ws	-3.54		Crippen Method
logp	3.286		Crippen Method
mcvol	167.420	ml/mol	McGowan Method
pc	2183.60	kPa	Joback Method
ripol	1664.00		NIST Webbook
tb	539.94	K	Joback Method
tc	700.34	K	Joback Method
tf	272.79	K	Joback Method
vc	0.651	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	409.11	J/mol×K	539.94	Joback Method
cpg	471.09	J/mol×K	673.61	Joback Method
cpg	459.71	J/mol×K	646.87	Joback Method
cpg	447.83	J/mol×K	620.14	Joback Method
cpg	435.45	J/mol×K	593.41	Joback Method
cpg	422.55	J/mol×K	566.67	Joback Method
cpg	482.00	J/mol×K	700.34	Joback Method
dvisc	0.0001077	Pa×s	539.94	Joback Method
dvisc	0.0001775	Pa×s	495.42	Joback Method
dvisc	0.0003228	Pa×s	450.89	Joback Method
dvisc	0.0006692	Pa×s	406.37	Joback Method
dvisc	0.0016603	Pa×s	361.84	Joback Method
dvisc	0.0053154	Pa×s	317.31	Joback Method
dvisc	0.0248802	Pa×s	272.79	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	405.00	K	2.00	NIST Webbook
tbrp	405.70	K	2.00	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.44069e+01
Coeff. B	-4.42933e+03
Coeff. C	-8.56130e+01
Temperature range (K), min.	399.32
Temperature range (K), max.	572.60

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C112436&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

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume