9-Decen-1-ol, methyl ether

Inchi: InChI=1S/C11H22O/c1-3-4-5-6-7-8-9-10-11-12-2/h3H,1,4-11H2,2H3
InchiKey: UIGGBQKGVMXIQC-UHFFFAOYSA-N
Formula: C11H22O
SMILES: C=CCCCCCCCCOC
Mol. weight [g/mol]: 170.29

Physical Properties

Property code	Value	Unit	Source
gf	24.58	kJ/mol	Joback Method
hf	-277.16	kJ/mol	Joback Method
hfus	24.15	kJ/mol	Joback Method
hvap	41.82	kJ/mol	Joback Method
log10ws	-3.37		Crippen Method
logp	3.550		Crippen Method
mcvol	167.420	ml/mol	McGowan Method
pc	1977.07	kPa	Joback Method
rinpol	1229.90		NIST Webbook
rinpol	1229.90		NIST Webbook
tb	470.18	K	Joback Method
tc	634.93	K	Joback Method
tf	234.20	K	Joback Method
vc	0.650	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	370.42	J/mol×K	470.18	Joback Method
cpg	385.59	J/mol×K	497.64	Joback Method
cpg	400.22	J/mol×K	525.10	Joback Method
cpg	414.30	J/mol×K	552.56	Joback Method
cpg	427.86	J/mol×K	580.01	Joback Method
cpg	440.91	J/mol×K	607.47	Joback Method
cpg	453.44	J/mol×K	634.93	Joback Method
dvisc	0.0038824	Pa×s	234.20	Joback Method

dvisc	0.0016405	Pa×s	273.53	Joback Method
dvisc	0.0008608	Pa×s	312.86	Joback Method
dvisc	0.0005217	Pa×s	352.19	Joback Method
dvisc	0.0003496	Pa×s	391.52	Joback Method
dvisc	0.0002521	Pa×s	430.85	Joback Method
dvisc	0.0001920	Pa×s	470.18	Joback Method

Sources

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=U352651&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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