

(Z)-4-Decen-1-ol, methyl ether

Inchi:	InChI=1S/C11H22O/c1-3-4-5-6-7-8-9-10-11-12-2/h7-8H,3-6,9-11H2,1-2H3/b8-7-
InchiKey:	HJKMNTPTAQKBJM-FPLPWBNLSA-N
Formula:	C11H22O
SMILES:	CCCCC=CCCCOC
Mol. weight [g/mol]:	170.29

Physical Properties

Property code	Value	Unit	Source
gf	16.96	kJ/mol	Joback Method
hf	-285.37	kJ/mol	Joback Method
hfus	25.64	kJ/mol	Joback Method
hvap	42.45	kJ/mol	Joback Method
log10ws	-3.37		Crippen Method
logp	3.550		Crippen Method
mcvol	167.420	ml/mol	McGowan Method
pc	1994.77	kPa	Joback Method
rinpol	1208.40		NIST Webbook
tb	477.66	K	Joback Method
tc	646.59	K	Joback Method
tf	230.88	K	Joback Method
vc	0.649	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.91	J/molxK	477.66	Joback Method
cpg	443.33	J/molxK	618.43	Joback Method
cpg	430.18	J/molxK	590.28	Joback Method
cpg	416.48	J/molxK	562.12	Joback Method
cpg	402.21	J/molxK	533.97	Joback Method
cpg	387.36	J/molxK	505.81	Joback Method
cpg	455.94	J/molxK	646.59	Joback Method
dvisc	0.0001598	Paxs	477.66	Joback Method
dvisc	0.0002125	Paxs	436.53	Joback Method

dvisc	0.0002999	Paxs	395.40	Joback Method
dvisc	0.0004583	Paxs	354.27	Joback Method
dvisc	0.0007830	Paxs	313.14	Joback Method
dvisc	0.0015728	Paxs	272.01	Joback Method
dvisc	0.0040508	Paxs	230.88	Joback Method

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=U333848&Units=SI

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

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