

3-Hexene, 1-(1-methoxyethoxy)-, (Z)-

Other names:	Methyl (Z)-3-hexenyl acetal
Inchi:	InChI=1S/C9H18O2/c1-4-5-6-7-8-11-9(2)10-3/h5-6,9H,4,7-8H2,1-3H3/b6-5-
InchiKey:	BFFNMPRAXYAFMS-WAYWQWQTS-A-N
Formula:	C9H18O2
SMILES:	CCC=CCCOC(C)OC
Mol. weight [g/mol]:	158.24
CAS:	54340-96-4

Physical Properties

Property code	Value	Unit	Source
gf	-107.32	kJ/mol	Joback Method
hf	-381.59	kJ/mol	Joback Method
hfus	18.12	kJ/mol	Joback Method
hvap	40.02	kJ/mol	Joback Method
log10ws	-2.22		Crippen Method
logp	2.352		Crippen Method
mcvol	145.110	ml/mol	McGowan Method
pc	2365.67	kPa	Joback Method
rinpol	1035.00		NIST Webbook
rinpol	1035.00		NIST Webbook
ripol	1267.00		NIST Webbook
ripol	1267.00		NIST Webbook
tb	453.88	K	Joback Method
tc	628.53	K	Joback Method
tf	215.57	K	Joback Method
vc	0.549	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	309.00	J/mol×K	453.88	Joback Method
cpg	372.71	J/mol×K	599.42	Joback Method
cpg	360.91	J/mol×K	570.31	Joback Method
cpg	348.64	J/mol×K	541.21	Joback Method

cpg	335.91	J/mol×K	512.10	Joback Method
cpg	322.69	J/mol×K	482.99	Joback Method
cpg	384.06	J/mol×K	628.53	Joback Method
dvisc	0.0001447	Paxs	453.88	Joback Method
dvisc	0.0001952	Paxs	414.16	Joback Method
dvisc	0.0002805	Paxs	374.44	Joback Method
dvisc	0.0004394	Paxs	334.73	Joback Method
dvisc	0.0007766	Paxs	295.01	Joback Method
dvisc	0.0016389	Paxs	255.29	Joback Method
dvisc	0.0045543	Paxs	215.57	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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=C54340964&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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