

Hexane, 1-(ethenyloxy)-

Other names:	Ether, hexyl vinyl Vinyl hexyl ether 1-(vinyloxy)hexane
Inchi:	InChI=1S/C8H16O/c1-3-5-6-7-8-9-4-2/h4H,2-3,5-8H2,1H3
InchiKey:	YAOJJEJGPZRYJF-UHFFFAOYSA-N
Formula:	C8H16O
SMILES:	C=COCCCCC
Mol. weight [g/mol]:	128.21
CAS:	5363-64-4

Physical Properties

Property code	Value	Unit	Source
gf	-0.68	kJ/mol	Joback Method
hf	-215.24	kJ/mol	Joback Method
hfus	16.38	kJ/mol	Joback Method
hvap	35.14	kJ/mol	Joback Method
log10ws	-2.61		Crippen Method
logp	2.727		Crippen Method
mcvol	125.150	ml/mol	McGowan Method
pc	2600.43	kPa	Joback Method
tb	416.70 ± 2.00	K	NIST Webbook
tc	568.77	K	Joback Method
tf	200.39	K	Joback Method
vc	0.482	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.31	J/mol×K	401.54	Joback Method
cpg	254.47	J/mol×K	429.41	Joback Method
cpg	266.21	J/mol×K	457.28	Joback Method
cpg	277.56	J/mol×K	485.15	Joback Method
cpg	288.50	J/mol×K	513.02	Joback Method
cpg	299.06	J/mol×K	540.90	Joback Method

cpg	309.23	J/mol×K	568.77	Joback Method
dvisc	0.0035637	Paxs	200.39	Joback Method
dvisc	0.0015989	Paxs	233.91	Joback Method
dvisc	0.0008770	Paxs	267.44	Joback Method
dvisc	0.0005499	Paxs	300.96	Joback Method
dvisc	0.0003786	Paxs	334.49	Joback Method
dvisc	0.0002790	Paxs	368.01	Joback Method
dvisc	0.0002164	Paxs	401.54	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5363644&Units=SI
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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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