

cis-(4-Methyl-1-pentenyl) ethyl ether

Inchi:	InChI=1S/C8H16O/c1-4-9-7-5-6-8(2)3/h5,7-8H,4,6H2,1-3H3/b7-5-
InchiKey:	PEGWCMWUBAGRKQ-ALCCZGGFSA-N
Formula:	C8H16O
SMILES:	CCOC=CCC(C)C
Mol. weight [g/mol]:	128.21
CAS:	16969-29-2

Physical Properties

Property code	Value	Unit	Source
gf	-10.74	kJ/mol	Joback Method
hf	-228.73	kJ/mol	Joback Method
hfus	14.34	kJ/mol	Joback Method
hvap	35.38	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	2.583		Crippen Method
mcvol	125.150	ml/mol	McGowan Method
pc	2648.83	kPa	Joback Method
tb	408.58	K	Joback Method
tc	584.62	K	Joback Method
tf	182.07	K	Joback Method
vc	0.475	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.63	J/mol×K	408.58	Joback Method
cpg	255.52	J/mol×K	437.92	Joback Method
cpg	267.93	J/mol×K	467.26	Joback Method
cpg	279.84	J/mol×K	496.60	Joback Method
cpg	291.29	J/mol×K	525.94	Joback Method
cpg	302.28	J/mol×K	555.28	Joback Method
cpg	312.81	J/mol×K	584.62	Joback Method
dvisc	0.0067640	Paxs	182.07	Joback Method
dvisc	0.0021811	Paxs	219.82	Joback Method

dvisc	0.0009800	Paxs	257.57	Joback Method
dvisc	0.0005403	Paxs	295.32	Joback Method
dvisc	0.0003409	Paxs	333.08	Joback Method
dvisc	0.0002362	Paxs	370.83	Joback Method
dvisc	0.0001752	Paxs	408.58	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=C16969292&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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