2,4-Hexadiene, 1,6-dimethoxy-, (E,E)-

Inchi: InChI=1S/C8H14O2/c1-9-7-5-3-4-6-8-10-2/h3-6H,7-8H2,1-2H3/b5-3+,6-4+
InchiKey: YALLCAMEYAILJE-GGWOSOGESA-N
Formula: C8H14O2
SMILES: COCC=CC=CCOC
Mol. weight [g/mol]: 142.20
CAS: 71603-53-7

Physical Properties

Property code	Value	Unit	Source
gf	-33.08	kJ/mol	Joback Method
hf	-238.45	kJ/mol	Joback Method
hfus	19.26	kJ/mol	Joback Method
hvap	38.14	kJ/mol	Joback Method
log10ws	-1.05		Crippen Method
logp	1.392		Crippen Method
mcvol	126.720	ml/mol	McGowan Method
pc	2724.01	kPa	Joback Method
tb	435.60	K	Joback Method
tc	616.08	K	Joback Method
tf	214.22	K	Joback Method
vc	0.479	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	251.32	J/mol×K	435.60	Joback Method
cpg	263.29	J/mol×K	465.68	Joback Method
cpg	274.79	J/mol×K	495.76	Joback Method
cpg	285.83	J/mol×K	525.84	Joback Method
cpg	296.41	J/mol×K	555.92	Joback Method
cpg	306.57	J/mol×K	586.00	Joback Method
cpg	316.29	J/mol×K	616.08	Joback Method
dvisc	0.0026394	Pa×s	214.22	Joback Method
dvisc	0.0011119	Pa×s	251.12	Joback Method

dvisc	0.0005846	Pa×s	288.01	Joback Method
dvisc	0.0003556	Pa×s	324.91	Joback Method
dvisc	0.0002394	Pa×s	361.81	Joback Method
dvisc	0.0001735	Pa×s	398.70	Joback Method
dvisc	0.0001327	Pa×s	435.60	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C71603537&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