1-Propene, 2,3-dimethoxy-

Inchi: InChI=1S/C5H10O2/c1-5(7-3)4-6-2/h1,4H2,2-3H3
InchiKey: USZQGXVRDYONEE-UHFFFAOYSA-N
Formula: C5H10O2
SMILES: C=C(COC)OC
Mol. weight [g/mol]: 102.13
CAS: 61860-67-1

Physical Properties

Property code	Value	Unit	Source
gf	-139.49	kJ/mol	Joback Method
hf	-295.33	kJ/mol	Joback Method
hfus	8.49	kJ/mol	Joback Method
hvap	30.95	kJ/mol	Joback Method
log10ws	-0.44		Crippen Method
logp	0.793		Crippen Method
mcvol	88.750	ml/mol	McGowan Method
pc	3522.09	kPa	Joback Method
tb	355.20	K	Joback Method
tc	527.54	K	Joback Method
tf	174.85	K	Joback Method
vc	0.334	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	156.34	J/mol×K	355.20	Joback Method
cpg	164.30	J/mol×K	383.92	Joback Method
cpg	172.09	J/mol×K	412.65	Joback Method
cpg	179.71	J/mol×K	441.37	Joback Method
cpg	187.16	J/mol×K	470.09	Joback Method
cpg	194.42	J/mol×K	498.81	Joback Method
cpg	201.50	J/mol×K	527.54	Joback Method

Sources

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=C61860671&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
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