Allyl methallyl ether

Inchi: InChI=1S/C7H12O/c1-4-5-8-6-7(2)3/h4H,1-2,5-6H2,3H3
InchiKey: AOCWWIFKJRJLOP-UHFFFAOYSA-N
Formula: C7H12O
SMILES: C=CCOCC(=C)C
Mol. weight [g/mol]: 112.17
CAS: 14289-96-4

Physical Properties

Property code	Value	Unit	Source
gf	70.19	kJ/mol	Joback Method
hf	-78.96	kJ/mol	Joback Method
hfus	11.20	kJ/mol	Joback Method
hvap	32.33	kJ/mol	Joback Method
log10ws	-1.55		Crippen Method
logp	1.765		Crippen Method
mcvol	106.760	ml/mol	McGowan Method
pc	3025.61	kPa	Joback Method
tb	375.22	K	Joback Method
tc	549.84	K	Joback Method
tf	173.40	K	Joback Method
vc	0.408	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	189.99	J/mol×K	375.22	Joback Method
cpg	200.49	J/mol×K	404.32	Joback Method
cpg	210.60	J/mol×K	433.43	Joback Method
cpg	220.34	J/mol×K	462.53	Joback Method
cpg	229.70	J/mol×K	491.64	Joback Method
cpg	238.70	J/mol×K	520.74	Joback Method
cpg	247.35	J/mol×K	549.84	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=C14289964&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