(E)-2-Methoxy-1-(o-methoxyphenyl)propene

Inchi: InChI=1S/C11H14O2/c1-9(12-2)8-10-6-4-5-7-11(10)13-3/h4-8H,1-3H3/b9-8+
InchiKey: ALKYPQWSGHVGTC-CMDGGOBGSA-N
Formula: C11H14O2
SMILES: COC(C)=Cc1ccccc1OC
Mol. weight [g/mol]: 178.23
CAS: 101948-74-7

Physical Properties

Property code	Value	Unit	Source
gf	6.19	kJ/mol	Joback Method
hf	-202.32	kJ/mol	Joback Method
hfus	19.17	kJ/mol	Joback Method
hvap	47.88	kJ/mol	Joback Method
log10ws	-2.83		Crippen Method
logp	2.702		Crippen Method
mcvol	149.530	ml/mol	McGowan Method
pc	2670.78	kPa	Joback Method
tb	531.62	K	Joback Method
tc	744.54	K	Joback Method
tf	278.09	K	Joback Method
vc	0.560	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	332.95	J/mol×K	531.62	Joback Method
cpg	347.70	J/mol×K	567.11	Joback Method
cpg	361.69	J/mol×K	602.59	Joback Method
cpg	374.94	J/mol×K	638.08	Joback Method
cpg	387.46	J/mol×K	673.57	Joback Method
cpg	399.27	J/mol×K	709.06	Joback Method
cpg	410.39	J/mol×K	744.54	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C101948747&Units=SI
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

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