2-Methoxy-3-phenylbutene

Inchi: InChI=1S/C11H14O/c1-9-5-4-6-11(7-9)8-10(2)12-3/h4-7H,2,8H2,1,3H3
InchiKey: JEUCLPJRPXCNOQ-UHFFFAOYSA-N
Formula: C11H14O
SMILES: C=C(Cc1cccc(C)c1)OC
Mol. weight [g/mol]: 162.23
CAS: 91460-60-5

Physical Properties

Property code	Value	Unit	Source
gf	118.81	kJ/mol	Joback Method
hf	-61.89	kJ/mol	Joback Method
hfus	16.50	kJ/mol	Joback Method
hvap	44.84	kJ/mol	Joback Method
log10ws	-3.02		Crippen Method
logp	2.698		Crippen Method
mcvol	143.660	ml/mol	McGowan Method
pc	2690.21	kPa	Joback Method
tb	501.72	K	Joback Method
tc	711.54	K	Joback Method
tf	259.18	K	Joback Method
vc	0.543	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	307.77	J/mol×K	501.72	Joback Method
cpg	322.64	J/mol×K	536.69	Joback Method
cpg	336.74	J/mol×K	571.66	Joback Method
cpg	350.09	J/mol×K	606.63	Joback Method
cpg	362.70	J/mol×K	641.60	Joback Method
cpg	374.61	J/mol×K	676.57	Joback Method
cpg	385.83	J/mol×K	711.54	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=C91460605&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