2-Methyl-1-phenyl-2-propen-1-ol

Inchi: InChI=1S/C10H12O/c1-8(2)10(11)9-6-4-3-5-7-9/h3-7,10-11H,1H2,2H3
InchiKey: ZGYBYYJGIKPBFD-UHFFFAOYSA-N
Formula: C10H12O
SMILES: C=C(C)C(O)c1ccccc1
Mol. weight [g/mol]: 148.20
CAS: 4383-08-8

Physical Properties

Property code	Value	Unit	Source
gf	85.76	kJ/mol	Joback Method
hf	-55.07	kJ/mol	Joback Method
hfus	13.67	kJ/mol	Joback Method
hvap	55.83	kJ/mol	Joback Method
log10ws	-2.69		Crippen Method
logp	2.296		Crippen Method
mcvol	129.570	ml/mol	McGowan Method
pc	3460.21	kPa	Joback Method
tb	543.18	K	Joback Method
tc	747.11	K	Joback Method
tf	258.98	K	Joback Method
vc	0.482	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	292.71	J/mol×K	543.18	Joback Method
cpg	305.06	J/mol×K	577.17	Joback Method
cpg	316.65	J/mol×K	611.16	Joback Method
cpg	327.52	J/mol×K	645.14	Joback Method
cpg	337.70	J/mol×K	679.13	Joback Method
cpg	347.23	J/mol×K	713.12	Joback Method
cpg	356.15	J/mol×K	747.11	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4383088&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

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