3-phenyl-2-hydroxy-2-propen-1-ol

Inchi: InChI=1S/C9H10O2/c10-7-9(11)6-8-4-2-1-3-5-8/h1-6,10-11H,7H2/b9-6-
InchiKey: VGGHCKCSKKHBRM-TWGQIWQCSA-N
Formula: C9H10O2
SMILES: OCC(O)=Cc1ccccc1
Mol. weight [g/mol]: 150.17

Physical Properties

Property code	Value	Unit	Source
gf	-64.66	kJ/mol	Joback Method
hf	-189.59	kJ/mol	Joback Method
hfus	20.18	kJ/mol	Joback Method
hvap	71.30	kJ/mol	Joback Method
log10ws	-1.80		Crippen Method
logp	1.578		Crippen Method
mcvol	121.350	ml/mol	McGowan Method
pc	4385.77	kPa	Joback Method
ripol	2294.00		NIST Webbook
ripol	2294.00		NIST Webbook
tb	620.40	K	Joback Method
tc	814.87	K	Joback Method
tf	320.21	K	Joback Method
vc	0.451	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	293.48	J/mol×K	620.40	Joback Method
cpg	302.53	J/mol×K	652.81	Joback Method
cpg	311.01	J/mol×K	685.22	Joback Method
cpg	318.96	J/mol×K	717.64	Joback Method
cpg	326.42	J/mol×K	750.05	Joback Method
cpg	333.42	J/mol×K	782.46	Joback Method
cpg	340.01	J/mol×K	814.87	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=R492841&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume