3-Buten-1-ol, 3-phenyl

Inchi: InChI=1S/C10H12O/c1-9(7-8-11)10-5-3-2-4-6-10/h2-6,11H,1,7-8H2
InchiKey: PZAXWHVVPMHDMR-UHFFFAOYSA-N
Formula: C10H12O
SMILES: C=C(CCO)c1ccccc1
Mol. weight [g/mol]: 148.20

Physical Properties

Property code	Value	Unit	Source
gf	88.20	kJ/mol	Joback Method
hf	-49.79	kJ/mol	Joback Method
hfus	17.20	kJ/mol	Joback Method
hvap	56.22	kJ/mol	Joback Method
log10ws	-2.40		Crippen Method
logp	2.082		Crippen Method
mcvol	129.570	ml/mol	McGowan Method
pc	3427.87	kPa	Joback Method
rinpol	1365.00		NIST Webbook
tb	543.62	K	Joback Method
tc	743.29	K	Joback Method
tf	273.98	K	Joback Method
vc	0.488	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	292.36	J/mol×K	543.62	Joback Method
cpg	304.39	J/mol×K	576.90	Joback Method
cpg	315.70	J/mol×K	610.18	Joback Method
cpg	326.33	J/mol×K	643.46	Joback Method
cpg	336.30	J/mol×K	676.74	Joback Method
cpg	345.65	J/mol×K	710.01	Joback Method
cpg	354.43	J/mol×K	743.29	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R324580&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume