Benzenemethanol, «alpha»-2-propenyl-

Other names:	1-Phenyl-but-3-en-1-ol
	«alpha»-2-Propenyl-benzenmethanol
Inchi:	InChI=1S/C10H12O/c1-2-6-10(11)9-7-4-3-5-8-9/h2-5,7-8,10-11H,1,6H2
InchiKey:	RGKVZBXSJFAZRE-UHFFFAOYSA-N
Formula:	C10H12O
SMILES:	C=CCC(O)c1ccccc1
Mol. weight [g/mol]:	148.20
CAS:	936-58-3

Physical Properties

Property code	Value	Unit	Source
gf	94.31	kJ/mol	Joback Method
hf	-45.28	kJ/mol	Joback Method
hfus	14.98	kJ/mol	Joback Method
hvap	55.75	kJ/mol	Joback Method
log10ws	-2.69		Crippen Method
logp	2.296		Crippen Method
mcvol	129.570	ml/mol	McGowan Method
pc	3439.94	kPa	Joback Method
ripol	1869.00		NIST Webbook
ripol	1869.00		NIST Webbook
tb	543.30	K	Joback Method
tc	743.63	K	Joback Method
tf	272.94	K	Joback Method
vc	0.481	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	292.88	J/mol×K	543.30	Joback Method
cpg	305.05	J/mol×K	576.69	Joback Method
cpg	316.48	J/mol×K	610.08	Joback Method
cpg	327.21	J/mol×K	643.46	Joback Method
cpg	337.28	J/mol×K	676.85	Joback Method

cpg	346.71	J/mol×K	710.24	Joback Method
cpg	355.55	J/mol×K	743.63	Joback Method
dvisc	0.0237151	Pa×s	272.94	Joback Method
dvisc	0.0050542	Pa×s	318.00	Joback Method
dvisc	0.0015810	Pa×s	363.06	Joback Method
dvisc	0.0006392	Pa×s	408.12	Joback Method
dvisc	0.0003095	Pa×s	453.18	Joback Method
dvisc	0.0001708	Pa×s	498.24	Joback Method
dvisc	0.0001041	Pa×s	543.30	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C936583&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
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