trans-Hydroxymethylcyclopropane, 2-methyl-2-phenyl

Inchi: InChI=1S/C10H12O/c11-7-9-6-10(9)8-4-2-1-3-5-8/h1-5,9-11H,6-7H2/t9-,10-/m0/s1
InchiKey: CEZOORGGKZLLAO-UWVGGRQHSA-N
Formula: C10H12O
SMILES: OCC1CC1c1ccccc1
Mol. weight [g/mol]: 148.20

Physical Properties

Property code	Value	Unit	Source
gf	61.95	kJ/mol	Joback Method
hf	-112.97	kJ/mol	Joback Method
hfus	18.99	kJ/mol	Joback Method
hvap	56.41	kJ/mol	Joback Method
log10ws	-1.99		Crippen Method
logp	1.782		Crippen Method
mcvol	123.010	ml/mol	McGowan Method
pc	3637.73	kPa	Joback Method
rinpol	1340.00		NIST Webbook
tb	549.13	K	Joback Method
tc	755.41	K	Joback Method
tf	303.40	K	Joback Method
vc	0.463	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	298.63	J/mol×K	549.13	Joback Method
cpg	312.17	J/mol×K	583.51	Joback Method
cpg	324.83	J/mol×K	617.89	Joback Method
cpg	336.67	J/mol×K	652.27	Joback Method
cpg	347.73	J/mol×K	686.65	Joback Method
cpg	358.07	J/mol×K	721.03	Joback Method
cpg	367.74	J/mol×K	755.41	Joback Method
dvisc	0.0069752	Pa×s	303.40	Joback Method
dvisc	0.0028970	Pa×s	344.35	Joback Method

dvisc	0.0014503	Pa×s	385.31	Joback Method
dvisc	0.0008293	Pa×s	426.26	Joback Method
dvisc	0.0005230	Pa×s	467.22	Joback Method
dvisc	0.0003553	Pa×s	508.18	Joback Method
dvisc	0.0002557	Pa×s	549.13	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R13571&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume