Cyclohexane, (2-methyl-1-propenyl)-

Inchi: InChI=1S/C10H18/c1-9(2)8-10-6-4-3-5-7-10/h8,10H,3-7H2,1-2H3
InchiKey: LGBPUUFNFSHDSG-UHFFFAOYSA-N
Formula: C10H18
SMILES: CC(C)=CC1CCCCC1
Mol. weight [g/mol]: 138.25
CAS: 89656-98-4

Physical Properties

Property code	Value	Unit	Source
gf	129.44	kJ/mol	Joback Method
hf	-87.98	kJ/mol	Joback Method
hfus	12.38	kJ/mol	Joback Method
hvap	38.32	kJ/mol	Joback Method
log10ws	-3.52		Crippen Method
logp	3.533		Crippen Method
mcvol	136.600	ml/mol	McGowan Method
pc	2724.01	kPa	Joback Method
tb	451.79	K	Joback Method
tc	662.69	K	Joback Method
tf	190.80	K	Joback Method
vc	0.509	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	284.49	J/mol×K	451.79	Joback Method
cpg	304.20	J/mol×K	486.94	Joback Method
cpg	322.81	J/mol×K	522.09	Joback Method
cpg	340.38	J/mol×K	557.24	Joback Method
cpg	356.93	J/mol×K	592.39	Joback Method
cpg	372.51	J/mol×K	627.54	Joback Method
cpg	387.17	J/mol×K	662.69	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C89656984&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