Cyclohexane,ethenylidene-

Inchi: InChI=1S/C8H12/c1-2-8-6-4-3-5-7-8/h1,3-7H2
InchiKey: HZHTYEIEGPBKKS-UHFFFAOYSA-N
Formula: C8H12
SMILES: C=C=C1CCCCC1
Mol. weight [g/mol]: 108.18
CAS: 5664-20-0

Physical Properties

Property code	Value	Unit	Source
gf	230.00	kJ/mol	Joback Method
hf	113.23	kJ/mol	Joback Method
hfus	8.21	kJ/mol	Joback Method
hvap	34.73	kJ/mol	Joback Method
ie	8.69	eV	NIST Webbook
log10ws	-2.79		Crippen Method
logp	2.662		Crippen Method
mcvol	104.120	ml/mol	McGowan Method
pc	3731.66	kPa	Joback Method
tb	409.09	K	Joback Method
tc	626.14	K	Joback Method
tf	211.73	K	Joback Method
vc	0.382	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	190.09	J/mol×K	409.09	Joback Method
cpg	204.73	J/mol×K	445.27	Joback Method
cpg	218.69	J/mol×K	481.44	Joback Method
cpg	231.98	J/mol×K	517.62	Joback Method
cpg	244.61	J/mol×K	553.79	Joback Method
cpg	256.59	J/mol×K	589.97	Joback Method
cpg	267.93	J/mol×K	626.14	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5664200&Units=SI

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
ie:	Ionization energy
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