Cyclopropane, tetramethylmethylene-

Inchi: InChI=1S/C8H14/c1-6-7(2,3)8(6,4)5/h1H2,2-5H3
InchiKey: GUKKNVZJTXTEBF-UHFFFAOYSA-N
Formula: C8H14
SMILES: C=C1C(C)(C)C1(C)C
Mol. weight [g/mol]: 110.20
CAS: 54376-39-5

Physical Properties

Property code	Value	Unit	Source
gf	111.62	kJ/mol	Joback Method
hf	-41.27	kJ/mol	Joback Method
hfus	1.93	kJ/mol	Joback Method
hvap	30.86	kJ/mol	Joback Method
ie	9.22	eV	NIST Webbook
log10ws	-2.44		Crippen Method
logp	2.609		Crippen Method
mcvol	108.420	ml/mol	McGowan Method
pc	3156.17	kPa	Joback Method
tb	384.15	K	Joback Method
tc	579.36	K	Joback Method
tf	255.10	K	Joback Method
vc	0.419	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	206.32	J/mol×K	384.15	Joback Method
cpg	221.34	J/mol×K	416.68	Joback Method
cpg	234.99	J/mol×K	449.22	Joback Method
cpg	247.42	J/mol×K	481.75	Joback Method
cpg	258.78	J/mol×K	514.29	Joback Method
cpg	269.21	J/mol×K	546.82	Joback Method
cpg	278.88	J/mol×K	579.36	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C54376395&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
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