Cyclopropane, 1,1-dichloro-2,2,3-trimethyl

Inchi: InChI=1S/C6H10Cl2/c1-4-5(2,3)6(4,7)8/h4H,1-3H3
InchiKey: GFRPIERYDVZQAC-UHFFFAOYSA-N
Formula: C6H10Cl2
SMILES: CC1C(C)(C)C1(Cl)Cl
Mol. weight [g/mol]: 153.05

Physical Properties

Property code	Value	Unit	Source
gf	10.13	kJ/mol	Joback Method
hf	-136.05	kJ/mol	Joback Method
hfus	7.37	kJ/mol	Joback Method
hvap	34.71	kJ/mol	Joback Method
log10ws	-2.66		Crippen Method
logp	2.836		Crippen Method
mcvol	109.020	ml/mol	McGowan Method
pc	3403.91	kPa	Joback Method
rinpol	886.00		NIST Webbook
rinpol	886.00		NIST Webbook
ripol	1090.00		NIST Webbook
ripol	1090.00		NIST Webbook
tb	409.42	K	Joback Method
tc	622.29	K	Joback Method
tf	274.48	K	Joback Method
vc	0.420	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	199.25	J/mol×K	409.42	Joback Method
cpg	212.20	J/mol×K	444.90	Joback Method
cpg	223.74	J/mol×K	480.38	Joback Method
cpg	234.06	J/mol×K	515.86	Joback Method
cpg	243.35	J/mol×K	551.33	Joback Method
cpg	251.81	J/mol×K	586.81	Joback Method

cpg	259.62	J/mol×K	622.29	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=R121950&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
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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume