Cyclopropane, 1,1-dichloro-2,2-dimethyl-

Other names:	1,1-Dichloro-2,2-dimethylcyclopropane
	2,2-Dichloro-1,1-dimethylcyclopropane
Inchi:	InChI=1S/C5H8Cl2/c1-4(2)3-5(4,6)7/h3H2,1-2H3
InchiKey:	NNBWTSXEHTTWMR-UHFFFAOYSA-N
Formula:	C5H8Cl2
SMILES:	CC1(C)CC1(Cl)Cl
Mol. weight [g/mol]:	139.02
CAS:	694-16-6

Physical Properties

Property code	Value	Unit	Source
gf	9.42	kJ/mol	Joback Method
hf	-95.07	kJ/mol	Joback Method
hfus	3.71	kJ/mol	Joback Method
hvap	32.80	kJ/mol	Joback Method
log10ws	-2.48		Crippen Method
logp	2.590		Crippen Method
mcvol	94.930	ml/mol	McGowan Method
pc	3980.54	kPa	Joback Method
tb	392.00 ± 3.00	K	NIST Webbook
tb	392.90 ± 3.00	K	NIST Webbook
tc	606.84	K	Joback Method
tf	267.45	K	Joback Method
vc	0.365	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	160.98	J/mol×K	391.21	Joback Method
cpg	172.70	J/mol×K	427.15	Joback Method
cpg	182.93	J/mol×K	463.09	Joback Method
cpg	191.86	J/mol×K	499.03	Joback Method
cpg	199.71	J/mol×K	534.97	Joback Method
cpg	206.67	J/mol×K	570.90	Joback Method

cpg	212.95	J/mol×K	606.84	Joback Method

Sources

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=C694166&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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