Cyclopropane, 1,1-dichloro-2,2,3-triethyl-

Inchi: InChI=1S/C9H16Cl2/c1-4-7-8(5-2,6-3)9(7,10)11/h7H,4-6H2,1-3H3
InchiKey: HZZCFNUFGQXPQC-UHFFFAOYSA-N
Formula: C9H16Cl2
SMILES: CCC1C(Cl)(Cl)C1(CC)CC
Mol. weight [g/mol]: 195.13
CAS: 24551-90-4

Physical Properties

Property code	Value	Unit	Source
gf	35.39	kJ/mol	Joback Method
hf	-197.97	kJ/mol	Joback Method
hfus	15.14	kJ/mol	Joback Method
hvap	41.39	kJ/mol	Joback Method
log10ws	-3.91		Crippen Method
logp	4.006		Crippen Method
mcvol	151.290	ml/mol	McGowan Method
pc	2495.01	kPa	Joback Method
tb	417.00 ± 6.00	K	NIST Webbook
tc	683.03	K	Joback Method
tf	308.29	K	Joback Method
vc	0.589	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	323.15	J/mol×K	478.06	Joback Method
cpg	338.29	J/mol×K	512.22	Joback Method
cpg	352.21	J/mol×K	546.38	Joback Method
cpg	365.08	J/mol×K	580.55	Joback Method
cpg	377.09	J/mol×K	614.71	Joback Method
cpg	388.41	J/mol×K	648.87	Joback Method
cpg	399.23	J/mol×K	683.03	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=C24551904&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume