Cyclopropane, 1,1-dichloro-2,2-dimethyl-3-(3-methylbutyl)

Inchi: InChI=1S/C10H18Cl2/c1-7(2)5-6-8-9(3,4)10(8,11)12/h7-8H,5-6H2,1-4H3
InchiKey: LVFWMFWUQVZRLS-UHFFFAOYSA-N
Formula: C10H18Cl2
SMILES: CC(C)CCC1C(C)(C)C1(Cl)Cl
Mol. weight [g/mol]: 209.16

Physical Properties

Property code	Value	Unit	Source
gf	41.37	kJ/mol	Joback Method
hf	-223.89	kJ/mol	Joback Method
hfus	14.21	kJ/mol	Joback Method
hvap	43.23	kJ/mol	Joback Method
log10ws	-4.09		Crippen Method
logp	4.253		Crippen Method
mcvol	165.380	ml/mol	McGowan Method
pc	2289.32	kPa	Joback Method
rinpol	1108.00		NIST Webbook
ripol	1336.00		NIST Webbook
tb	500.50	K	Joback Method
tc	707.21	K	Joback Method
tf	304.56	K	Joback Method
vc	0.638	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	368.16	J/mol×K	500.50	Joback Method
cpg	384.33	J/mol×K	534.95	Joback Method
cpg	399.29	J/mol×K	569.40	Joback Method
cpg	413.21	J/mol×K	603.86	Joback Method
cpg	426.30	J/mol×K	638.31	Joback Method
cpg	438.73	J/mol×K	672.76	Joback Method
cpg	450.69	J/mol×K	707.21	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=R121965&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
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