Butane, 1-(2,2-dichloro-1-methylcyclopropyl)-3-methyl-

Other names: 1,1-Dichloro-2-isopentyl-2-methylcyclopropane
Cyclopropane, 1,1-dichloro-2-methyl-2-(3-methylbutyl)
Inchi: InChI=1S/C9H16Cl2/c1-7(2)4-5-8(3)6-9(8,10)11/h7H,4-6H2,1-3H3
InchiKey: SZDCIZLZSRDCSY-UHFFFAOYSA-N
Formula: C9H16Cl2
SMILES: CC(C)CCC1(C)CC1(Cl)Cl
Mol. weight [g/mol]: 195.13
CAS: 24551-81-3

Physical Properties

Property code	Value	Unit	Source
gf	40.66	kJ/mol	Joback Method
hf	-182.91	kJ/mol	Joback Method
hfus	10.55	kJ/mol	Joback Method
hvap	41.31	kJ/mol	Joback Method
log10ws	-3.91		Crippen Method
logp	4.006		Crippen Method
mcvol	151.290	ml/mol	McGowan Method
pc	2600.43	kPa	Joback Method
rinpol	1134.00		NIST Webbook
ripol	1364.00		NIST Webbook
ripol	1364.00		NIST Webbook
tb	482.29	K	Joback Method
tc	692.27	K	Joback Method
tf	297.53	K	Joback Method
vc	0.584	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	322.58	J/mol×K	482.29	Joback Method
cpg	337.72	J/mol×K	517.29	Joback Method
cpg	351.56	J/mol×K	552.28	Joback Method
cpg	364.32	J/mol×K	587.28	Joback Method

cpg	376.17	J/mol×K	622.28	Joback Method
cpg	387.34	J/mol×K	657.28	Joback Method
cpg	398.01	J/mol×K	692.27	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=C24551813&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