Cyclopropane, 1,1-dichloro-2-(1-methylethyl)-3-phenyl

Inchi: InChI=1S/C12H14Cl2/c1-8(2)10-11(12(10,13)14)9-6-4-3-5-7-9/h3-8,10-11H,1-2H3
InchiKey: MGGFOQYPEYIEJD-UHFFFAOYSA-N
Formula: C12H14Cl2
SMILES: CC(C)C1C(c2ccccc2)C1(Cl)Cl
Mol. weight [g/mol]: 229.15

Physical Properties

Property code	Value	Unit	Source
gf	176.11	kJ/mol	Joback Method
hf	-43.88	kJ/mol	Joback Method
hfus	19.73	kJ/mol	Joback Method
hvap	51.11	kJ/mol	Joback Method
log10ws	-4.24		Crippen Method
logp	4.230		Crippen Method
mcvol	169.800	ml/mol	McGowan Method
pc	2510.03	kPa	Joback Method
rinpol	1438.00		NIST Webbook
rinpol	1438.00		NIST Webbook
ripol	1891.00		NIST Webbook
tb	572.70	K	Joback Method
tc	811.28	K	Joback Method
tf	329.62	K	Joback Method
vc	0.644	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	393.41	J/mol×K	572.70	Joback Method
cpg	410.20	J/mol×K	612.46	Joback Method
cpg	425.72	J/mol×K	652.23	Joback Method
cpg	440.17	J/mol×K	691.99	Joback Method
cpg	453.75	J/mol×K	731.76	Joback Method
cpg	466.65	J/mol×K	771.52	Joback Method
cpg	479.07	J/mol×K	811.28	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R121945&Units=SI
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

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