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

Inchi: InChI=1S/C12H14Cl2/c1-9(2)11(8-12(11,13)14)10-6-4-3-5-7-10/h3-7,9H,8H2,1-2H3
InchiKey: PCUHSCWFSBEVAG-UHFFFAOYSA-N
Formula: C12H14Cl2
SMILES: CC(C)C1(c2ccccc2)CC1(Cl)Cl
Mol. weight [g/mol]: 229.15

Physical Properties

Property code	Value	Unit	Source
gf	178.33	kJ/mol	Joback Method
hf	-8.30	kJ/mol	Joback Method
hfus	12.36	kJ/mol	Joback Method
hvap	50.27	kJ/mol	Joback Method
log10ws	-4.19		Crippen Method
logp	4.158		Crippen Method
mcvol	169.800	ml/mol	McGowan Method
pc	2718.33	kPa	Joback Method
rinpol	1439.00		NIST Webbook
rinpol	1439.00		NIST Webbook
ripol	1911.00		NIST Webbook
ripol	1911.00		NIST Webbook
tb	577.61	K	Joback Method
tc	826.31	K	Joback Method
tf	357.76	K	Joback Method
vc	0.643	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	390.23	J/mol×K	577.61	Joback Method
cpg	406.08	J/mol×K	619.06	Joback Method
cpg	420.65	J/mol×K	660.51	Joback Method
cpg	434.31	J/mol×K	701.96	Joback Method
cpg	447.42	J/mol×K	743.41	Joback Method
cpg	460.33	J/mol×K	784.86	Joback Method

cpg	473.40	J/mol×K	826.31	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R121930&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