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

Inchi: InChI=1S/C13H16Cl2/c1-11(2,3)12(9-13(12,14)15)10-7-5-4-6-8-10/h4-8H,9H2,1-3H3
InchiKey: SMJHMZZCWZEYDY-UHFFFAOYSA-N
Formula: C13H16Cl2
SMILES: CC(C)(C)C1(c2ccccc2)CC1(Cl)Cl
Mol. weight [g/mol]: 243.17

Physical Properties

Property code	Value	Unit	Source
gf	192.03	kJ/mol	Joback Method
hf	-32.41	kJ/mol	Joback Method
hfus	11.06	kJ/mol	Joback Method
hvap	51.58	kJ/mol	Joback Method
log10ws	-4.61		Crippen Method
logp	4.548		Crippen Method
mcvol	183.890	ml/mol	McGowan Method
pc	2492.52	kPa	Joback Method
rinpol	1533.00		NIST Webbook
rinpol	1533.00		NIST Webbook
ripol	2030.00		NIST Webbook
ripol	2030.00		NIST Webbook
tb	597.70	K	Joback Method
tc	851.40	K	Joback Method
tf	386.45	K	Joback Method
vc	0.695	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	441.18	J/mol×K	597.70	Joback Method
cpg	458.18	J/mol×K	639.98	Joback Method
cpg	473.82	J/mol×K	682.27	Joback Method
cpg	488.52	J/mol×K	724.55	Joback Method
cpg	502.70	J/mol×K	766.83	Joback Method
cpg	516.79	J/mol×K	809.12	Joback Method

cpg	531.21	J/mol×K	851.40	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=R121925&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