Cyclopropane, 1,1-dichloro-2-methyl-3-phenyl

Inchi: InChI=1S/C10H10Cl2/c1-7-9(10(7,11)12)8-5-3-2-4-6-8/h2-7,9H,1H3
InchiKey: COQLLIBVLRIOQF-UHFFFAOYSA-N
Formula: C10H10Cl2
SMILES: CC1C(c2ccccc2)C1(Cl)Cl
Mol. weight [g/mol]: 201.09

Physical Properties

Property code	Value	Unit	Source
gf	161.71	kJ/mol	Joback Method
hf	2.68	kJ/mol	Joback Method
hfus	18.07	kJ/mol	Joback Method
hvap	47.04	kJ/mol	Joback Method
log10ws	-3.64		Crippen Method
logp	3.594		Crippen Method
mcvol	141.620	ml/mol	McGowan Method
pc	3045.68	kPa	Joback Method
rinpol	1328.00		NIST Webbook
rinpol	1328.00		NIST Webbook
ripol	1838.00		NIST Webbook
tb	527.38	K	Joback Method
tc	770.26	K	Joback Method
tf	322.08	K	Joback Method
vc	0.538	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.41	J/mol×K	527.38	Joback Method
cpg	315.37	J/mol×K	567.86	Joback Method
cpg	329.03	J/mol×K	608.34	Joback Method
cpg	341.60	J/mol×K	648.82	Joback Method
cpg	353.26	J/mol×K	689.30	Joback Method
cpg	364.21	J/mol×K	729.78	Joback Method
cpg	374.64	J/mol×K	770.26	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R122126&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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