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

Inchi: InChI=1S/C11H12Cl2/c1-8-10(2,11(8,12)13)9-6-4-3-5-7-9/h3-8H,1-2H3

InchiKey: IOWCOFRMWOFEPS-UHFFFAOYSA-N

Formula: C11H12Cl2

SMILES: CC1C(Cl)(Cl)C1(C)c1ccccc1

Mol. weight [g/mol]: 215.12

Physical Properties

Property code	Value	Unit	Source
gf	164.64	kJ/mol	Joback Method
hf	-2.72	kJ/mol	Joback Method
hfus	14.36	kJ/mol	Joback Method
hvap	48.12	kJ/mol	Joback Method
log10ws	-3.77		Crippen Method
logp	3.768		Crippen Method
mcvol	155.710	ml/mol	McGowan Method
pc	2881.21	kPa	Joback Method
rinpol	1378.00		NIST Webbook
rinpol	1378.00		NIST Webbook
ripol	1869.00		NIST Webbook
ripol	1869.00		NIST Webbook
tb	550.50	K	Joback Method
tc	798.90	K	Joback Method
tf	357.25	K	Joback Method
vc	0.593	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	345.03	J/mol×K	550.50	Joback Method
cpg	360.36	J/mol×K	591.90	Joback Method
cpg	374.32	J/mol×K	633.30	Joback Method
cpg	387.27	J/mol×K	674.70	Joback Method
cpg	399.53	J/mol×K	716.10	Joback Method
cpg	411.46	J/mol×K	757.50	Joback Method

cpg	423.40	J/mol×K	798.90	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=R122002&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