Cyclopropane, 1,1-dichloro-2-(phenylmethyl)

Inchi: InChI=1S/C10H10Cl2/c11-10(12)7-9(10)6-8-4-2-1-3-5-8/h1-5,9H,6-7H2
InchiKey: DGWQDTVVILBZOP-UHFFFAOYSA-N
Formula: C10H10Cl2
SMILES: ClC1(Cl)CC1Cc1ccccc1
Mol. weight [g/mol]: 201.09

Physical Properties

Property code	Value	Unit	Source
gf	169.42	kJ/mol	Joback Method
hf	23.02	kJ/mol	Joback Method
hfus	17.00	kJ/mol	Joback Method
hvap	47.35	kJ/mol	Joback Method
log10ws	-3.68		Crippen Method
logp	3.423		Crippen Method
mcvol	141.620	ml/mol	McGowan Method
pc	3159.72	kPa	Joback Method
rinpol	1365.00		NIST Webbook
ripol	1907.00		NIST Webbook
tb	532.05	K	Joback Method
tc	774.95	K	Joback Method
tf	326.32	K	Joback Method
vc	0.539	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	298.92	J/mol×K	532.05	Joback Method
cpg	313.36	J/mol×K	572.53	Joback Method
cpg	326.51	J/mol×K	613.02	Joback Method
cpg	338.56	J/mol×K	653.50	Joback Method
cpg	349.74	J/mol×K	693.99	Joback Method
cpg	360.23	J/mol×K	734.47	Joback Method
cpg	370.26	J/mol×K	774.95	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R122146&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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