Cyclopropane, 1,1-dichloro-2-(4-methylphenyl)

Inchi: InChI=1S/C10H10Cl2/c1-7-2-4-8(5-3-7)9-6-10(9,11)12/h2-5,9H,6H2,1H3
InchiKey: WTFWLLSGGABAPZ-UHFFFAOYSA-N
Formula: C10H10Cl2
SMILES: Cc1ccc(C2CC2(Cl)Cl)cc1
Mol. weight [g/mol]: 201.09

Physical Properties

Property code	Value	Unit	Source
gf	159.79	kJ/mol	Joback Method
hf	11.55	kJ/mol	Joback Method
hfus	16.61	kJ/mol	Joback Method
hvap	48.02	kJ/mol	Joback Method
log10ws	-3.94		Crippen Method
logp	3.656		Crippen Method
mcvol	141.620	ml/mol	McGowan Method
pc	3107.10	kPa	Joback Method
rinpol	1366.00		NIST Webbook
rinpol	1366.00		NIST Webbook
ripol	1884.00		NIST Webbook
ripol	1884.00		NIST Webbook
tb	537.03	K	Joback Method
tc	781.14	K	Joback Method
tf	338.84	K	Joback Method
vc	0.539	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	298.61	J/mol×K	537.03	Joback Method
cpg	312.62	J/mol×K	577.72	Joback Method
cpg	325.44	J/mol×K	618.40	Joback Method
cpg	337.24	J/mol×K	659.09	Joback Method
cpg	348.25	J/mol×K	699.77	Joback Method
cpg	358.65	J/mol×K	740.46	Joback Method

cpg	368.64	J/mol×K	781.14	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=R122017&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