1-(M-chlorophenyl)-1-(p-chlorophenyl)-ethylene

Inchi: InChI=1S/C14H10Cl2/c1-10(11-5-7-13(15)8-6-11)12-3-2-4-14(16)9-12/h2-9H,1H2
InchiKey: OOXXDXBLEWMFHR-UHFFFAOYSA-N
Formula: C14H10Cl2
SMILES: C=C(c1ccc(Cl)cc1)c1cccc(Cl)c1
Mol. weight [g/mol]: 249.13
CAS: 22057-88-1

Physical Properties

Property code	Value	Unit	Source
gf	327.99	kJ/mol	Joback Method
hf	201.99	kJ/mol	Joback Method
hfus	25.12	kJ/mol	Joback Method
hvap	60.81	kJ/mol	Joback Method
log10ws	-5.38		Crippen Method
logp	5.055		Crippen Method
mcvol	180.780	ml/mol	McGowan Method
pc	2611.07	kPa	Joback Method
tb	654.46	K	Joback Method
tc	912.60	K	Joback Method
tf	369.54	K	Joback Method
vc	0.683	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	402.31	J/mol×K	654.46	Joback Method
cpg	416.35	J/mol×K	697.48	Joback Method
cpg	429.19	J/mol×K	740.51	Joback Method
cpg	440.91	J/mol×K	783.53	Joback Method
cpg	451.60	J/mol×K	826.55	Joback Method
cpg	461.37	J/mol×K	869.57	Joback Method
cpg	470.30	J/mol×K	912.60	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C22057881&Units=SI

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume