1,2-bis-(4-Chlorophenyl)ethylene

Inchi: InChI=1S/C14H10Cl2/c15-13-7-3-11(4-8-13)1-2-12-5-9-14(16)10-6-12/h1-10H/b2-1+
InchiKey: WELCIURRBCOJDX-OWOJBTEDSA-N
Formula: C14H10Cl2
SMILES: Clc1ccc(C=Cc2ccc(Cl)cc2)cc1
Mol. weight [g/mol]: 249.13

Physical Properties

Property code	Value	Unit	Source
gf	328.92	kJ/mol	Joback Method
hf	203.57	kJ/mol	Joback Method
hfus	27.92	kJ/mol	Joback Method
hvap	61.36	kJ/mol	Joback Method
log10ws	-5.45		Crippen Method
logp	5.164		Crippen Method
mcvol	180.780	ml/mol	McGowan Method
pc	2624.46	kPa	Joback Method
rinpol	2217.00		NIST Webbook
rinpol	2217.00		NIST Webbook
tb	662.06	K	Joback Method
tc	920.93	K	Joback Method
tf	380.18	K	Joback Method
vc	0.681	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	402.43	J/mol×K	662.06	Joback Method
cpg	460.76	J/mol×K	877.79	Joback Method
cpg	451.05	J/mol×K	834.64	Joback Method
cpg	440.47	J/mol×K	791.50	Joback Method
cpg	428.92	J/mol×K	748.35	Joback Method
cpg	416.27	J/mol×K	705.21	Joback Method
cpg	469.69	J/mol×K	920.93	Joback Method
dvisc	0.0001397	Pa×s	662.06	Joback Method

dvisc	0.0001741	Pa×s	615.08	Joback Method
dvisc	0.0002252	Pa×s	568.10	Joback Method
dvisc	0.0003050	Pa×s	521.12	Joback Method
dvisc	0.0004387	Pa×s	474.14	Joback Method
dvisc	0.0006836	Pa×s	427.16	Joback Method
dvisc	0.0011885	Pa×s	380.18	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R175323&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

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume