Benzene, 1,1'-(2,2-dichloroethylidene)bis-

Inchi: InChI=1S/C14H12Cl2/c15-14(16)13(11-7-3-1-4-8-11)12-9-5-2-6-10-12/h1-10,13-14H
InchiKey: FVMUDWLRSAABPN-UHFFFAOYSA-N
Formula: C14H12Cl2
SMILES: ClC(Cl)C(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 251.15
CAS: 2387-16-8

Physical Properties

Property code	Value	Unit	Source
gf	263.08	kJ/mol	Joback Method
hf	98.73	kJ/mol	Joback Method
hfus	21.45	kJ/mol	Joback Method
hvap	59.30	kJ/mol	Joback Method
log10ws	-4.87		Crippen Method
logp	4.622		Crippen Method
mcvol	185.080	ml/mol	McGowan Method
pc	2608.40	kPa	Joback Method
rinpol	1854.00		NIST Webbook
rinpol	1854.00		NIST Webbook
tb	647.06	K	Joback Method
tc	904.20	K	Joback Method
tf	330.22	K	Joback Method
vc	0.690	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	427.88	J/mol×K	647.06	Joback Method
cpg	493.65	J/mol×K	861.34	Joback Method
cpg	482.90	J/mol×K	818.48	Joback Method
cpg	471.06	J/mol×K	775.63	Joback Method
cpg	458.01	J/mol×K	732.77	Joback Method
cpg	443.65	J/mol×K	689.92	Joback Method
cpg	503.41	J/mol×K	904.20	Joback Method

dvisc	0.0001421	Pa×s	647.06	Joback Method
dvisc	0.0001899	Pa×s	594.25	Joback Method
dvisc	0.0002687	Pa×s	541.45	Joback Method
dvisc	0.0004097	Pa×s	488.64	Joback Method
dvisc	0.0006920	Pa×s	435.83	Joback Method
dvisc	0.0013505	Pa×s	383.03	Joback Method
dvisc	0.0032642	Pa×s	330.22	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=C2387168&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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