DDMU

Other names:	Benzene, 1,1'-(chloroethenylidene)bis[4-chloro-
	Ethylene, 2-chloro-1,1-bis(p-chlorophenyl)-
	p,p'-DDD olefin
	p,p'-DDM
	p,p'-DDMU
	p,p'-DME
	p,p'-TDE olefin
	p,p'-TDEE
	TDEE
	1-Chloro-2,2-bis(p-chlorophenyl)ethylene
	1,1-Bis(p-chlorophenyl)-2-chloroethene
	1,1-Bis(p-chlorophenyl)-2-chloroethylene
	2,2-Bis(p-chlorophenyl)-1-chloroethylene
	2,2-Bis(4-chlorophenyl)-1-chloroethylene
	Ethylene, 1,1-bis(p-chlorophenyl)-2-chloro-
	1,1'-(Chlorovinylidene)bis[4-chlorobenzene]
	NSC 46465
	1-Chloro-2,2-(bis-(4-chlorophenyl)ethylene
Inchi:	InChI=1S/C14H9Cl3/c15-9-14(10-1-5-12(16)6-2-10)11-3-7-13(17)8-4-11/h1-9H
InchiKey:	LNKQQZFLNUVWQQ-UHFFFAOYSA-N
Formula:	C14H9Cl3
SMILES:	ClC=C(c1ccc(Cl)cc1)c1ccc(Cl)cc1
Mol. weight [g/mol]:	283.58
CAS:	1022-22-6

Physical Properties

Property code	Value	Unit	Source
gf	308.44	kJ/mol	Joback Method
hf	178.04	kJ/mol	Joback Method
hfus	30.80	kJ/mol	Joback Method
hvap	65.83	kJ/mol	Joback Method
log10ws	-6.03		Crippen Method
logp	5.621		Crippen Method
mcvol	193.020	ml/mol	McGowan Method
pc	2540.49	kPa	Joback Method
tb	699.37	K	Joback Method
tc	965.14	K	Joback Method

tf	396.14	K	Joback Method
vc	0.732	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	424.95	J/mol×K	699.37	Joback Method
cpg	437.67	J/mol×K	743.66	Joback Method
cpg	449.23	J/mol×K	787.96	Joback Method
cpg	459.77	J/mol×K	832.25	Joback Method
cpg	469.39	J/mol×K	876.55	Joback Method
cpg	478.23	J/mol×K	920.84	Joback Method
cpg	486.39	J/mol×K	965.14	Joback Method
hfust	25.52	kJ/mol	337.90	NIST Webbook

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=C1022226&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
hfust: Enthalpy of fusion at a given temperature
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