Ethene, 1,1-diphenyl-2,2-dichloro-

Inchi: InChI=1S/C14H10Cl2/c15-14(16)13(11-7-3-1-4-8-11)12-9-5-2-6-10-12/h1-10H
InchiKey: GVLRAPLHURDGPL-UHFFFAOYSA-N
Formula: C14H10Cl2
SMILES: ClC(Cl)=C(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 249.13
CAS: 2779-69-3

Physical Properties

Property code	Value	Unit	Source
gf	331.08	kJ/mol	Joback Method
hf	206.93	kJ/mol	Joback Method
hfus	26.07	kJ/mol	Joback Method
hvap	60.20	kJ/mol	Joback Method
log10ws	-5.31		Crippen Method
logp	4.881		Crippen Method
mcvol	180.780	ml/mol	McGowan Method
pc	2735.42	kPa	Joback Method
rinpol	1754.00		NIST Webbook
tb	651.86	K	Joback Method
tc	918.69	K	Joback Method
tf	327.22	K	Joback Method
vc	0.683	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	404.29	J/mol×K	651.86	Joback Method
cpg	419.05	J/mol×K	696.33	Joback Method
cpg	432.42	J/mol×K	740.80	Joback Method
cpg	444.52	J/mol×K	785.28	Joback Method
cpg	455.52	J/mol×K	829.75	Joback Method
cpg	465.55	J/mol×K	874.22	Joback Method
cpg	474.77	J/mol×K	918.69	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2779693&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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