

Benzene, 1,1'-(chloroethenylidene)bis-

Other names:	Ethylene, 2-chloro-1,1-diphenyl- 2-Chloro-1,1-diphenylethylene 1,1-Diphenyl-2-chloroethylene 2,2-Diphenylvinyl chloride 1-Chloro-2,2-diphenylethene
Inchi:	InChI=1S/C14H11Cl/c15-11-14(12-7-3-1-4-8-12)13-9-5-2-6-10-13/h1-11H
InchiKey:	DLIRODSKOPSWFS-UHFFFAOYSA-N
Formula:	C14H11Cl
SMILES:	ClC=C(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	214.69
CAS:	4541-89-3

Physical Properties

Property code	Value	Unit	Source
gf	351.56	kJ/mol	Joback Method
hf	232.46	kJ/mol	Joback Method
hfus	23.19	kJ/mol	Joback Method
hvap	55.73	kJ/mol	Joback Method
log10ws	-4.66		Crippen Method
logp	4.315		Crippen Method
mcvol	168.540	ml/mol	McGowan Method
pc	2829.33	kPa	Joback Method
rinpol	1704.00		NIST Webbook
rinpol	1704.00		NIST Webbook
tb	614.55	K	Joback Method
tc	873.72	K	Joback Method
tf	311.26	K	Joback Method
vc	0.633	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	379.47	J/molxK	614.55	Joback Method
cpg	395.47	J/molxK	657.74	Joback Method

cpg	410.04	J/mol×K	700.94	Joback Method
cpg	423.30	J/mol×K	744.13	Joback Method
cpg	435.38	J/mol×K	787.33	Joback Method
cpg	446.41	J/mol×K	830.52	Joback Method
cpg	456.51	J/mol×K	873.72	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=C4541893&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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