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]: 251.16

Physical Properties

Property code	Value	Unit	Source
af	0.4060		Cheméo Relay (1.0)
gf	263.08	kJ/mol	Joback Method
hf	106.26	kJ/mol	Cheméo Relay (1.0)
hfus	21.45	kJ/mol	Joback Method
hvap	73.96	kJ/mol	Cheméo Relay (1.0)
ie	9.02	eV	Cheméo Relay (1.0)
log10ws	-5.45		Cheméo Relay (1.0)
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	587.77	K	Cheméo Relay (1.0)
tc	848.04	K	Cheméo Relay (1.0)
tf	339.32	K	Cheméo Relay (1.0)
vc	0.647	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

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

cpg	503.41	J/mol×K	904.20	Joback Method
dvisc	0.0032642	Pa×s	330.22	Joback Method
dvisc	0.0013505	Pa×s	383.03	Joback Method
dvisc	0.0006920	Pa×s	435.83	Joback Method
dvisc	0.0004097	Pa×s	488.64	Joback Method
dvisc	0.0002687	Pa×s	541.45	Joback Method
dvisc	0.0001899	Pa×s	594.25	Joback Method
dvisc	0.0001421	Pa×s	647.06	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2387168&Units=SI

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

af: Acentric Factor
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
ie: Ionization energy
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