2,2-Bis(p-chlorophenyl)ethanol

Other names:	Benzeneethanol, 4-chloro-«beta»-(4-chlorophenyl)-
	Ethanol, 2,2-bis(p-chlorophenyl)-
	DDOH
	DDOM
	2,2-Bis(4-chlorophenyl)-1-hydroxyethane
	2,2-Bis(4-chlorophenyl)ethanol
	p,p'-DDOH
	Ethanol, 2,2-bis-(4-chlorophenyl)
	NSC 8942
Inchi:	InChI=1S/C14H12Cl2O/c15-12-5-1-10(2-6-12)14(9-17)11-3-7-13(16)8-4-11/h1-8,14,17H,
InchiKey:	ZVIDYKRNLNAXFT-UHFFFAOYSA-N
Formula:	C14H12Cl2O
SMILES:	OCC(c1ccc(Cl)cc1)c1ccc(Cl)cc1
Mol. weight [g/mol]:	267.15
CAS:	2642-82-2

Physical Properties

Property code	Value	Unit	Source
gf	109.44	kJ/mol	Joback Method
hf	-71.16	kJ/mol	Joback Method
hfus	28.28	kJ/mol	Joback Method
hvap	77.69	kJ/mol	Joback Method
log10ws	-4.59		Crippen Method
logp	4.118		Crippen Method
mcvol	190.950	ml/mol	McGowan Method
pc	2758.46	kPa	Joback Method
rinpol	2186.00		NIST Webbook
rinpol	2186.00		NIST Webbook
tb	749.64	K	Joback Method
tc	980.91	K	Joback Method
tf	431.08	K	Joback Method
vc	0.715	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	474.14	J/mol×K	749.64	Joback Method
cpg	523.12	J/mol×K	942.37	Joback Method
cpg	514.89	J/mol×K	903.82	Joback Method
cpg	505.94	J/mol×K	865.28	Joback Method
cpg	496.21	J/mol×K	826.73	Joback Method
cpg	485.63	J/mol×K	788.19	Joback Method
cpg	530.69	J/mol×K	980.91	Joback Method
dvisc	0.0000319	Pa×s	749.64	Joback Method
dvisc	0.0000464	Pa×s	696.55	Joback Method
dvisc	0.0000719	Pa×s	643.45	Joback Method
dvisc	0.0001205	Pa×s	590.36	Joback Method
dvisc	0.0002237	Pa×s	537.27	Joback Method
dvisc	0.0004753	Pa×s	484.17	Joback Method
dvisc	0.0012160	Pa×s	431.08	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2642822&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
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