Benzenemethanol, 4-chloro-«alpha»-phenyl-

Other names:	Benzhydrol, 4-chloro-
	(4-Chlorophenyl)phenylmethanol
	p-Chlorobenzhydrol
	Benzhydrol, p-chloro-
	Chlorobenzhydrol
	4-Chlorobenzhydrol
	4-Chlorodiphenyl carbinol
	4-Chlorobenzohydrol
	NSC 59990
	4-chlorobenzhydryl alcohol
Inchi:	InChI=1S/C13H11ClO/c14-12-8-6-11(7-9-12)13(15)10-4-2-1-3-5-10/h1-9,13,15H
InchiKey:	AJYOOHCNOXWTKJ-UHFFFAOYSA-N
Formula:	C13H11ClO
SMILES:	OC(c1ccccc1)c1ccc(Cl)cc1
Mol. weight [g/mol]:	218.68
CAS:	119-56-2

Physical Properties

Property code	Value	Unit	Source
gf	122.58	kJ/mol	Joback Method
hf	-23.31	kJ/mol	Joback Method
hfus	21.88	kJ/mol	Joback Method
hvap	70.42	kJ/mol	Joback Method
log10ws	-3.98		Crippen Method
logp	3.422		Crippen Method
mcvol	164.620	ml/mol	McGowan Method
pc	3243.03	kPa	Joback Method
rinpol	2335.00		NIST Webbook
rinpol	2335.00		NIST Webbook
ripol	3383.00		NIST Webbook
ripol	3383.00		NIST Webbook
tb	684.35	K	Joback Method
tc	916.51	K	Joback Method
tf	377.37	K	Joback Method
vc	0.610	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	402.13	J/mol×K	684.35	Joback Method
cpg	454.21	J/mol×K	877.82	Joback Method
cpg	445.48	J/mol×K	839.13	Joback Method
cpg	435.97	J/mol×K	800.43	Joback Method
cpg	425.62	J/mol×K	761.74	Joback Method
cpg	414.36	J/mol×K	723.04	Joback Method
cpg	462.22	J/mol×K	916.51	Joback Method
dvisc	0.0000455	Pa×s	684.35	Joback Method
dvisc	0.0000687	Pa×s	633.19	Joback Method
dvisc	0.0001113	Pa×s	582.02	Joback Method
dvisc	0.0001980	Pa×s	530.86	Joback Method
dvisc	0.0003983	Pa×s	479.70	Joback Method
dvisc	0.0009468	Pa×s	428.53	Joback Method
dvisc	0.0028462	Pa×s	377.37	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=C119562&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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