

Phenyl-(2-chlorophenyl)carbinol

Inchi:	InChI=1S/C13H11ClO/c14-12-9-5-4-8-11(12)13(15)10-6-2-1-3-7-10/h1-9,13,15H
InchiKey:	JGDRELLAZGINQM-UHFFFAOYSA-N
Formula:	C13H11ClO
SMILES:	OC(c1ccccc1)c1ccccc1Cl
Mol. weight [g/mol]:	218.68

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	2239.00		NIST Webbook
rinpol	2239.00		NIST Webbook
ripol	3120.00		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/molxK	684.35	Joback Method
cpg	414.36	J/molxK	723.04	Joback Method
cpg	425.62	J/molxK	761.74	Joback Method
cpg	435.97	J/molxK	800.43	Joback Method
cpg	445.48	J/molxK	839.13	Joback Method
cpg	454.21	J/molxK	877.82	Joback Method
cpg	462.22	J/molxK	916.51	Joback Method

dvisc	0.0028462	Paxs	377.37	Joback Method
dvisc	0.0009468	Paxs	428.53	Joback Method
dvisc	0.0003983	Paxs	479.70	Joback Method
dvisc	0.0001980	Paxs	530.86	Joback Method
dvisc	0.0001113	Paxs	582.02	Joback Method
dvisc	0.0000687	Paxs	633.19	Joback Method
dvisc	0.0000455	Paxs	684.35	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=R537796&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I

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

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