

# Phenyl-(2,4-dichlorophenyl)carbinol

<b>Inchi:</b>	InChI=1S/C13H10Cl2O/c14-10-6-7-11(12(15)8-10)13(16)9-4-2-1-3-5-9/h1-8,13,16H
<b>InchiKey:</b>	KOMWHXYBCOVOGL-UHFFFAOYSA-N
<b>Formula:</b>	C13H10Cl2O
<b>SMILES:</b>	OC(c1ccccc1)c1ccc(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	253.12

## Physical Properties

Property code	Value	Unit	Source
gf	101.02	kJ/mol	Joback Method
hf	-50.52	kJ/mol	Joback Method
hfus	25.69	kJ/mol	Joback Method
hvap	75.47	kJ/mol	Joback Method
log10ws	-4.66		Crippen Method
logp	4.075		Crippen Method
mvol	176.860	ml/mol	McGowan Method
pc	3059.17	kPa	Joback Method
rmpol	2402.00		NIST Webbook
ripol	3325.00		NIST Webbook
tb	726.76	K	Joback Method
tc	962.34	K	Joback Method
tf	419.81	K	Joback Method
vc	0.658	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	422.90	J/molxK	726.76	Joback Method
cpg	469.29	J/molxK	923.07	Joback Method
cpg	461.56	J/molxK	883.81	Joback Method
cpg	453.12	J/molxK	844.55	Joback Method
cpg	443.90	J/molxK	805.29	Joback Method
cpg	433.85	J/molxK	766.02	Joback Method
cpg	476.38	J/molxK	962.34	Joback Method
dvisc	0.0000378	Paxs	726.76	Joback Method

dvisc	0.0000551	Paxs	675.60	Joback Method
dvisc	0.0000852	Paxs	624.44	Joback Method
dvisc	0.0001425	Paxs	573.29	Joback Method
dvisc	0.0002635	Paxs	522.13	Joback Method
dvisc	0.0005572	Paxs	470.97	Joback Method
dvisc	0.0014138	Paxs	419.81	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R537781&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R537781&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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