

# 3-Phenoxybenzyl chloride

<b>Inchi:</b>	InChI=1S/C13H11ClO/c14-10-11-5-4-8-13(9-11)15-12-6-2-1-3-7-12/h1-9H,10H2
<b>InchiKey:</b>	QUYVTGFWFHQVRO-UHFFFAOYSA-N
<b>Formula:</b>	C13H11ClO
<b>SMILES:</b>	ClCc1cccc(Oc2ccccc2)c1
<b>Mol. weight [g/mol]:</b>	218.68

## Physical Properties

Property code	Value	Unit	Source
gf	156.84	kJ/mol	Joback Method
hf	1.98	kJ/mol	Joback Method
hfus	22.50	kJ/mol	Joback Method
hvap	56.54	kJ/mol	Joback Method
log10ws	-4.14		Crippen Method
logp	4.218		Crippen Method
mcvol	164.620	ml/mol	McGowan Method
pc	2850.52	kPa	Joback Method
rinsol	1773.00		NIST Webbook
tb	615.03	K	Joback Method
tc	860.59	K	Joback Method
tf	353.78	K	Joback Method
vc	0.615	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	375.84	J/molxK	615.03	Joback Method
cpg	390.88	J/molxK	655.96	Joback Method
cpg	404.77	J/molxK	696.88	Joback Method
cpg	417.56	J/molxK	737.81	Joback Method
cpg	429.30	J/molxK	778.74	Joback Method
cpg	440.03	J/molxK	819.66	Joback Method
cpg	449.81	J/molxK	860.59	Joback Method
dvisc	0.0013816	Paxs	353.78	Joback Method
dvisc	0.0007805	Paxs	397.32	Joback Method

dvisc	0.0004936	Paxs	440.86	Joback Method
dvisc	0.0003390	Paxs	484.40	Joback Method
dvisc	0.0002476	Paxs	527.95	Joback Method
dvisc	0.0001898	Paxs	571.49	Joback Method
dvisc	0.0001510	Paxs	615.03	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=U353822&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353822&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>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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