

# Phenylacetic acid, 4-chloro-, pentyl ester

<b>Inchi:</b>	InChI=1S/C13H17ClO2/c1-2-3-4-9-16-13(15)10-11-5-7-12(14)8-6-11/h5-8H,2-4,9-10H2,1
<b>InchiKey:</b>	YKZPKZQCLCQSSB-UHFFFAOYSA-N
<b>Formula:</b>	C13H17ClO2
<b>SMILES:</b>	CCCCCOC(=O)Cc1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	240.73

## Physical Properties

Property code	Value	Unit	Source
gf	-84.49	kJ/mol	Joback Method
hf	-347.13	kJ/mol	Joback Method
hfus	30.06	kJ/mol	Joback Method
hvap	61.01	kJ/mol	Joback Method
log10ws	-3.91		Crippen Method
logp	3.616		Crippen Method
mvol	189.950	ml/mol	McGowan Method
pc	2181.56	kPa	Joback Method
rinpol	1742.00		NIST Webbook
rinpol	1742.00		NIST Webbook
tb	642.22	K	Joback Method
tc	849.84	K	Joback Method
tf	377.29	K	Joback Method
vc	0.729	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.36	J/molxK	642.22	Joback Method
cpg	536.14	J/molxK	815.23	Joback Method
cpg	524.81	J/molxK	780.63	Joback Method
cpg	512.68	J/molxK	746.03	Joback Method
cpg	499.75	J/molxK	711.43	Joback Method
cpg	485.98	J/molxK	676.82	Joback Method
cpg	546.71	J/molxK	849.84	Joback Method
dvisc	0.0001562	Paxs	642.22	Joback Method

dvisc	0.0001978	Paxs	598.07	Joback Method
dvisc	0.0002602	Paxs	553.91	Joback Method
dvisc	0.0003589	Paxs	509.75	Joback Method
dvisc	0.0005262	Paxs	465.60	Joback Method
dvisc	0.0008357	Paxs	421.45	Joback Method
dvisc	0.0014793	Paxs	377.29	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<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=U406209&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406209&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>

## 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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