

# Phenylacetic acid, 4-chloro-, heptyl ester

<b>Inchi:</b>	InChI=1S/C15H21ClO2/c1-2-3-4-5-6-11-18-15(17)12-13-7-9-14(16)10-8-13/h7-10H,2-6,1
<b>InchiKey:</b>	PASLQPGQXAOSNK-UHFFFAOYSA-N
<b>Formula:</b>	C15H21ClO2
<b>SMILES:</b>	CCCCCCCOC(=O)Cc1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	268.78

## Physical Properties

Property code	Value	Unit	Source
gf	-67.65	kJ/mol	Joback Method
hf	-388.41	kJ/mol	Joback Method
hfus	35.24	kJ/mol	Joback Method
hvap	65.46	kJ/mol	Joback Method
log10ws	-4.75		Crippen Method
logp	4.396		Crippen Method
mvol	218.130	ml/mol	McGowan Method
pc	1837.26	kPa	Joback Method
rinpol	1943.00		NIST Webbook
rinpol	1943.00		NIST Webbook
tb	687.98	K	Joback Method
tc	890.06	K	Joback Method
tf	399.83	K	Joback Method
vc	0.841	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	575.67	J/mol×K	687.98	Joback Method
cpg	591.24	J/mol×K	721.66	Joback Method
cpg	605.90	J/mol×K	755.34	Joback Method
cpg	619.68	J/mol×K	789.02	Joback Method
cpg	632.59	J/mol×K	822.70	Joback Method
cpg	644.67	J/mol×K	856.38	Joback Method
cpg	655.94	J/mol×K	890.06	Joback Method
dvisc	0.0013068	Paxs	399.83	Joback Method

dvisc	0.0007157	Paxs	447.86	Joback Method
dvisc	0.0004405	Paxs	495.88	Joback Method
dvisc	0.0002954	Paxs	543.90	Joback Method
dvisc	0.0002113	Paxs	591.93	Joback Method
dvisc	0.0001590	Paxs	639.96	Joback Method
dvisc	0.0001245	Paxs	687.98	Joback Method

## Sources

<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>
<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=U406211&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406211&amp;Units=SI</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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