

# Phenylacetic acid, 4-chloro-, tridecyl ester

<b>Inchi:</b>	InChI=1S/C21H33ClO2/c1-2-3-4-5-6-7-8-9-10-11-12-17-24-21(23)18-19-13-15-20(22)16
<b>InchiKey:</b>	LECJSGBIFXEKSF-UHFFFAOYSA-N
<b>Formula:</b>	C21H33ClO2
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)Cc1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	352.94

## Physical Properties

Property code	Value	Unit	Source
gf	-17.13	kJ/mol	Joback Method
hf	-512.25	kJ/mol	Joback Method
hfus	50.78	kJ/mol	Joback Method
hvap	78.82	kJ/mol	Joback Method
log10ws	-7.26		Crippen Method
logp	6.737		Crippen Method
mvol	302.670	ml/mol	McGowan Method
pc	1181.71	kPa	Joback Method
rinpol	2682.00		NIST Webbook
rinpol	2682.00		NIST Webbook
tb	825.26	K	Joback Method
tc	1021.88	K	Joback Method
tf	467.45	K	Joback Method
vc	1.177	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	916.32	J/molxK	825.26	Joback Method
cpg	992.75	J/molxK	989.11	Joback Method
cpg	979.45	J/molxK	956.34	Joback Method
cpg	965.19	J/molxK	923.57	Joback Method
cpg	949.95	J/molxK	890.80	Joback Method
cpg	933.67	J/molxK	858.03	Joback Method
cpg	1005.13	J/molxK	1021.88	Joback Method
dvisc	0.0000571	Paxs	825.26	Joback Method

dvisc	0.0000744	Paxs	765.62	Joback Method
dvisc	0.0001014	Paxs	705.99	Joback Method
dvisc	0.0001464	Paxs	646.36	Joback Method
dvisc	0.0002278	Paxs	586.72	Joback Method
dvisc	0.0003916	Paxs	527.09	Joback Method
dvisc	0.0007730	Paxs	467.45	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=U406216&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406216&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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