

# 4-(Octyloxy)-3-chlorophenylacetic acid

<b>Inchi:</b>	InChI=1S/C16H23ClO3/c1-2-3-4-5-6-7-10-20-15-9-8-13(11-14(15)17)12-16(18)19/h8-9,1
<b>InchiKey:</b>	IHBVRZFITXXSHI-UHFFFAOYSA-N
<b>Formula:</b>	C16H23ClO3
<b>SMILES:</b>	CCCCCCCCOc1ccc(CC(=O)O)cc1Cl
<b>Mol. weight [g/mol]:</b>	298.81

## Physical Properties

Property code	Value	Unit	Source
gf	-205.68	kJ/mol	Joback Method
hf	-572.75	kJ/mol	Joback Method
hfus	41.53	kJ/mol	Joback Method
hvap	85.03	kJ/mol	Joback Method
log10ws	-5.11		Crippen Method
logp	4.706		Crippen Method
mvol	238.090	ml/mol	McGowan Method
pc	1807.70	kPa	Joback Method
rinpol	2305.00		NIST Webbook
rinpol	2305.00		NIST Webbook
tb	808.02	K	Joback Method
tc	1004.20	K	Joback Method
tf	484.44	K	Joback Method
vc	0.915	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	688.62	J/molxK	808.02	Joback Method
cpg	701.81	J/molxK	840.72	Joback Method
cpg	714.17	J/molxK	873.41	Joback Method
cpg	725.73	J/molxK	906.11	Joback Method
cpg	736.50	J/molxK	938.81	Joback Method
cpg	746.51	J/molxK	971.50	Joback Method
cpg	755.79	J/molxK	1004.20	Joback Method
dvisc	0.0005429	Paxs	484.44	Joback Method

dvisc	0.0002371	Paxs	538.37	Joback Method
dvisc	0.0001204	Paxs	592.30	Joback Method
dvisc	0.0000684	Paxs	646.23	Joback Method
dvisc	0.0000425	Paxs	700.16	Joback Method
dvisc	0.0000282	Paxs	754.09	Joback Method
dvisc	0.0000198	Paxs	808.02	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R31739&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R31739&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>
<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>

## 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>mccvol:</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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