

# Pimelic acid, 2-chlorophenyl 4-methyl-2-pentyl ester

<b>Inchi:</b>	InChI=1S/C19H27ClO4/c1-14(2)13-15(3)23-18(21)11-5-4-6-12-19(22)24-17-10-8-7-9-16
<b>InchiKey:</b>	BYXRTOPGNFLPLV-UHFFFAOYSA-N
<b>Formula:</b>	C19H27ClO4
<b>SMILES:</b>	CC(C)CC(C)OC(=O)CCCCC(=O)Oc1ccccc1Cl
<b>Mol. weight [g/mol]:</b>	354.87

## Physical Properties

Property code	Value	Unit	Source
gf	-272.77	kJ/mol	Joback Method
hf	-726.33	kJ/mol	Joback Method
hfus	41.34	kJ/mol	Joback Method
hvap	82.75	kJ/mol	Joback Method
log10ws	-5.81		Crippen Method
logp	5.174		Crippen Method
mvol	281.930	ml/mol	McGowan Method
pc	1418.64	kPa	Joback Method
rinpol	2434.00		NIST Webbook
rinpol	2434.00		NIST Webbook
tb	854.91	K	Joback Method
tc	1063.12	K	Joback Method
tf	487.07	K	Joback Method
vc	1.077	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	847.35	J/molxK	854.91	Joback Method
cpg	910.86	J/molxK	1028.42	Joback Method
cpg	900.40	J/molxK	993.72	Joback Method
cpg	888.84	J/molxK	959.02	Joback Method
cpg	876.17	J/molxK	924.31	Joback Method
cpg	862.34	J/molxK	889.61	Joback Method
cpg	920.25	J/molxK	1063.12	Joback Method
dvisc	0.0000458	Paxs	854.91	Joback Method

dvisc	0.0000604	Paxs	793.60	Joback Method
dvisc	0.0000834	Paxs	732.30	Joback Method
dvisc	0.0001223	Paxs	670.99	Joback Method
dvisc	0.0001936	Paxs	609.68	Joback Method
dvisc	0.0003396	Paxs	548.38	Joback Method
dvisc	0.0006863	Paxs	487.07	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=U416453&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U416453&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>
<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>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> 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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