

# Phthalic acid, 2,5-dichlorophenyl pentyl ester

<b>Inchi:</b>	InChI=1S/C19H18Cl2O4/c1-2-3-6-11-24-18(22)14-7-4-5-8-15(14)19(23)25-17-12-13(20)
<b>InchiKey:</b>	LNLLOKMOTKBCBD-UHFFFAOYSA-N
<b>Formula:</b>	C19H18Cl2O4
<b>SMILES:</b>	CCCCCOC(=O)c1ccccc1C(=O)Oc1cc(Cl)ccc1Cl
<b>Mol. weight [g/mol]:</b>	381.25

## Physical Properties

Property code	Value	Unit	Source
gf	-186.67	kJ/mol	Joback Method
hf	-517.92	kJ/mol	Joback Method
hfus	45.85	kJ/mol	Joback Method
hvap	91.51	kJ/mol	Joback Method
log10ws	-6.85		Crippen Method
logp	5.560		Crippen Method
mcvol	270.410	ml/mol	McGowan Method
pc	1726.03	kPa	Joback Method
rinqol	2659.00		NIST Webbook
tb	929.86	K	Joback Method
tc	1163.73	K	Joback Method
tf	598.45	K	Joback Method
vc	1.030	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	765.86	J/molxK	929.86	Joback Method
cpg	776.98	J/molxK	968.84	Joback Method
cpg	786.84	J/molxK	1007.82	Joback Method
cpg	795.46	J/molxK	1046.79	Joback Method
cpg	802.88	J/molxK	1085.77	Joback Method
cpg	809.13	J/molxK	1124.75	Joback Method
cpg	814.22	J/molxK	1163.73	Joback Method
dvisc	0.0003155	Paxs	598.45	Joback Method
dvisc	0.0002039	Paxs	653.69	Joback Method

dvisc	0.0001411	Paxs	708.92	Joback Method
dvisc	0.0001029	Paxs	764.15	Joback Method
dvisc	0.0000784	Paxs	819.39	Joback Method
dvisc	0.0000617	Paxs	874.62	Joback Method
dvisc	0.0000500	Paxs	929.86	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=U356348&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356348&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>

## 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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