

# Phthalic acid, 2,2-dichloroethyl propyl ester

<b>Inchi:</b>	InChI=1S/C13H14Cl2O4/c1-2-7-18-12(16)9-5-3-4-6-10(9)13(17)19-8-11(14)15/h3-6,11H,
<b>InchiKey:</b>	PJHMROLLNEJMCHO-UHFFFAOYSA-N
<b>Formula:</b>	C13H14Cl2O4
<b>SMILES:</b>	CCCOC(=O)c1ccccc1C(=O)OCC(Cl)Cl
<b>Mol. weight [g/mol]:</b>	305.15

## Physical Properties

Property code	Value	Unit	Source
gf	-332.78	kJ/mol	Joback Method
hf	-612.95	kJ/mol	Joback Method
hfus	33.52	kJ/mol	Joback Method
hvap	74.16	kJ/mol	Joback Method
log10ws	-4.13		Crippen Method
logp	3.214		Crippen Method
mvol	209.630	ml/mol	McGowan Method
pc	2216.62	kPa	Joback Method
rinpol	2011.00		NIST Webbook
rinpol	2011.00		NIST Webbook
tb	755.50	K	Joback Method
tc	974.24	K	Joback Method
tf	464.37	K	Joback Method
vc	0.795	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	537.54	J/molxK	755.50	Joback Method
cpg	549.56	J/molxK	791.96	Joback Method
cpg	560.64	J/molxK	828.41	Joback Method
cpg	570.80	J/molxK	864.87	Joback Method
cpg	580.05	J/molxK	901.33	Joback Method
cpg	588.39	J/molxK	937.78	Joback Method
cpg	595.84	J/molxK	974.24	Joback Method
dvisc	0.0008915	Paxs	464.37	Joback Method

dvisc	0.0005213	Paxs	512.89	Joback Method
dvisc	0.0003345	Paxs	561.41	Joback Method
dvisc	0.0002303	Paxs	609.93	Joback Method
dvisc	0.0001675	Paxs	658.46	Joback Method
dvisc	0.0001273	Paxs	706.98	Joback Method
dvisc	0.0001002	Paxs	755.50	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=U356924&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356924&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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