

# Phthalic acid, butyl 2,4,5-trichlorophenyl ester

<b>Inchi:</b>	InChI=1S/C18H15Cl3O4/c1-2-3-8-24-17(22)11-6-4-5-7-12(11)18(23)25-16-10-14(20)13(
<b>InchiKey:</b>	DVWYTUJZLKKWHH-UHFFFAOYSA-N
<b>Formula:</b>	C18H15Cl3O4
<b>SMILES:</b>	CCCCOC(=O)c1ccccc1C(=O)Oc1cc(Cl)c(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	401.67

## Physical Properties

Property code	Value	Unit	Source
gf	-216.65	kJ/mol	Joback Method
hf	-524.49	kJ/mol	Joback Method
hfus	47.07	kJ/mol	Joback Method
hvap	94.33	kJ/mol	Joback Method
log10ws	-7.11		Crippen Method
logp	5.823		Crippen Method
mcvol	268.560	ml/mol	McGowan Method
pc	1790.91	kPa	Joback Method
rinsol	2735.00		NIST Webbook
tb	949.39	K	Joback Method
tc	1189.09	K	Joback Method
tf	629.62	K	Joback Method
vc	1.022	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	726.75	J/molxK	949.39	Joback Method
cpg	736.27	J/molxK	989.34	Joback Method
cpg	744.55	J/molxK	1029.29	Joback Method
cpg	751.59	J/molxK	1069.24	Joback Method
cpg	757.42	J/molxK	1109.19	Joback Method
cpg	762.06	J/molxK	1149.14	Joback Method
cpg	765.53	J/molxK	1189.09	Joback Method
dvisc	0.0002679	Paxs	629.62	Joback Method
dvisc	0.0001821	Paxs	682.91	Joback Method

dvisc	0.0001308	Paxs	736.21	Joback Method
dvisc	0.0000983	Paxs	789.50	Joback Method
dvisc	0.0000766	Paxs	842.80	Joback Method
dvisc	0.0000615	Paxs	896.09	Joback Method
dvisc	0.0000506	Paxs	949.39	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=U357044&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357044&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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