

# Butyric acid, 2-phenyl-, 2,3-dichlorophenyl ester

Inchi:	InChI=1S/C16H14Cl2O2/c1-2-12(11-7-4-3-5-8-11)16(19)20-14-10-6-9-13(17)15(14)18/h3
InchiKey:	HTFWNXCXBGHKCV-UHFFFAOYSA-N
Formula:	C16H14Cl2O2
SMILES:	CCC(C(=O)Oc1cccc(Cl)c1Cl)c1ccccc1
Mol. weight [g/mol]:	309.19

## Physical Properties

Property code	Value	Unit	Source
gf	29.18	kJ/mol	Joback Method
hf	-205.01	kJ/mol	Joback Method
hfus	32.16	kJ/mol	Joback Method
hvap	74.62	kJ/mol	Joback Method
log10ws	-5.57		Crippen Method
logp	5.093		Crippen Method
mcvol	220.700	ml/mol	McGowan Method
pc	2179.52	kPa	Joback Method
rinpol	2199.00		NIST Webbook
rinpol	2199.00		NIST Webbook
tb	779.51	K	Joback Method
tc	1023.23	K	Joback Method
tf	464.96	K	Joback Method
vc	0.832	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	566.97	J/molxK	779.51	Joback Method
cpg	622.70	J/molxK	982.61	Joback Method
cpg	613.71	J/molxK	941.99	Joback Method
cpg	603.70	J/molxK	901.37	Joback Method
cpg	592.60	J/molxK	860.75	Joback Method
cpg	580.38	J/molxK	820.13	Joback Method
cpg	630.72	J/molxK	1023.23	Joback Method
dvisc	0.0000928	Paxs	779.51	Joback Method

dvisc	0.0001172	Paxs	727.09	Joback Method
dvisc	0.0001536	Paxs	674.66	Joback Method
dvisc	0.0002107	Paxs	622.24	Joback Method
dvisc	0.0003063	Paxs	569.81	Joback Method
dvisc	0.0004804	Paxs	517.38	Joback Method
dvisc	0.0008337	Paxs	464.96	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U406865&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406865&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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