

# Phthalic acid, butyl pent-4-enyl ester

<b>Inchi:</b>	InChI=1S/C17H22O4/c1-3-5-9-13-21-17(19)15-11-8-7-10-14(15)16(18)20-12-6-4-2/h3,7-
<b>InchiKey:</b>	XGQSDLZUTSZZJA-UHFFFAOYSA-N
<b>Formula:</b>	C17H22O4
<b>SMILES:</b>	C=CCCCOC(=O)c1cccc1C(=O)OCCCC
<b>Mol. weight [g/mol]:</b>	290.35

## Physical Properties

Property code	Value	Unit	Source
gf	-184.96	kJ/mol	Joback Method
hf	-533.32	kJ/mol	Joback Method
hfus	37.73	kJ/mol	Joback Method
hvap	74.02	kJ/mol	Joback Method
log10ws	-4.74		Crippen Method
logp	3.766		Crippen Method
mvol	237.210	ml/mol	McGowan Method
pc	1736.11	kPa	Joback Method
rinpol	2062.00		NIST Webbook
rinpol	2062.00		NIST Webbook
tb	769.28	K	Joback Method
tc	972.21	K	Joback Method
tf	462.85	K	Joback Method
vc	0.908	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	678.74	J/molxK	769.28	Joback Method
cpg	693.64	J/molxK	803.10	Joback Method
cpg	707.55	J/molxK	836.92	Joback Method
cpg	720.49	J/molxK	870.74	Joback Method
cpg	732.48	J/molxK	904.57	Joback Method
cpg	743.53	J/molxK	938.39	Joback Method
cpg	753.67	J/molxK	972.21	Joback Method
dvisc	0.0007930	Paxs	462.85	Joback Method

dvisc	0.0004572	Paxs	513.92	Joback Method
dvisc	0.0002912	Paxs	564.99	Joback Method
dvisc	0.0001999	Paxs	616.07	Joback Method
dvisc	0.0001453	Paxs	667.14	Joback Method
dvisc	0.0001106	Paxs	718.21	Joback Method
dvisc	0.0000872	Paxs	769.28	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=U360463&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360463&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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