

# Dibut-3-enyl phthalate

<b>Other names:</b>	1,2-Benzenedicarboxylic acid, dibut-3-enyl ester Dibut-3-enyl-1,2-benzenedicarboxylate
<b>Inchi:</b>	InChI=1S/C16H18O4/c1-3-5-11-19-15(17)13-9-7-8-10-14(13)16(18)20-12-6-4-2/h3-4,7-1
<b>InchiKey:</b>	PHSVKLDVWSRDNM-UHFFFAOYSA-N
<b>Formula:</b>	C16H18O4
<b>SMILES:</b>	<chem>C=CCCOC(=O)c1cccc1C(=O)OCC=C</chem>
<b>Mol. weight [g/mol]:</b>	274.31

## Physical Properties

Property code	Value	Unit	Source
gf	-105.54	kJ/mol	Joback Method
hf	-387.25	kJ/mol	Joback Method
hfus	33.86	kJ/mol	Joback Method
hvap	71.12	kJ/mol	Joback Method
log10ws	-4.18		Crippen Method
logp	3.152		Crippen Method
mcvol	218.820	ml/mol	McGowan Method
pc	1954.41	kPa	Joback Method
rinpol	1939.00		NIST Webbook
rinpol	1939.00		NIST Webbook
tb	743.08	K	Joback Method
tc	950.66	K	Joback Method
tf	449.82	K	Joback Method
vc	0.834	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	598.61	J/molxK	743.08	Joback Method
cpg	612.64	J/molxK	777.68	Joback Method
cpg	625.73	J/molxK	812.27	Joback Method
cpg	637.90	J/molxK	846.87	Joback Method
cpg	649.17	J/molxK	881.46	Joback Method
cpg	659.55	J/molxK	916.06	Joback Method

cpg	669.08	J/mol×K	950.66	Joback Method
dvisc	0.0008637	Paxs	449.82	Joback Method
dvisc	0.0005114	Paxs	498.70	Joback Method
dvisc	0.0003325	Paxs	547.57	Joback Method
dvisc	0.0002320	Paxs	596.45	Joback Method
dvisc	0.0001709	Paxs	645.33	Joback Method
dvisc	0.0001315	Paxs	694.20	Joback Method
dvisc	0.0001047	Paxs	743.08	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=U373496&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373496&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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