

# Phenolphthalein, dibutyrate

<b>Other names:</b>	(3-oxo-1(3H)-isobenzofurylidene)di-p-phenylene dibutyrate
<b>Inchi:</b>	InChI=1S/C28H26O6/c1-3-9-25(29)32-21-13-7-11-19(17-21)28(24-16-6-5-15-23(24)27(3
<b>InchiKey:</b>	LWUNSJOOQGPWSQ-UHFFFAOYSA-N
<b>Formula:</b>	C28H26O6
<b>SMILES:</b>	CCCC(=O)Oc1cccc(C2(c3cccc(OC(=O)CCC)c3)OC(=O)c3ccccc32)c1
<b>Mol. weight [g/mol]:</b>	458.50
<b>CAS:</b>	62625-15-4

## Physical Properties

Property code	Value	Unit	Source
gf	-128.07	kJ/mol	Joback Method
hf	-617.33	kJ/mol	Joback Method
hfus	54.13	kJ/mol	Joback Method
hvap	112.57	kJ/mol	Joback Method
log10ws	-7.48		Crippen Method
logp	5.560		Crippen Method
mcvol	345.560	ml/mol	McGowan Method
pc	1408.01	kPa	Joback Method
tb	1189.35	K	Joback Method
tc	1459.33	K	Joback Method
tf	803.09	K	Joback Method
vc	1.310	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1209.85	J/molxK	1189.35	Joback Method
cpg	1231.09	J/molxK	1234.35	Joback Method
cpg	1252.81	J/molxK	1279.34	Joback Method
cpg	1275.27	J/molxK	1324.34	Joback Method
cpg	1298.73	J/molxK	1369.33	Joback Method
cpg	1323.45	J/molxK	1414.33	Joback Method
cpg	1349.68	J/molxK	1459.33	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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=C62625154&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C62625154&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>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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