

# Phthalic acid, 5-bromo-2-methoxybenzyl undecyl ester

<b>Inchi:</b>	InChI=1S/C27H35BrO5/c1-3-4-5-6-7-8-9-10-13-18-32-26(29)23-14-11-12-15-24(23)27(30)
<b>InchiKey:</b>	LMLMPDQXBKYDFR-UHFFFAOYSA-N
<b>Formula:</b>	C27H35BrO5
<b>SMILES:</b>	CCCCCCCCCOC(=O)c1cccc1C(=O)OCc1cc(Br)ccc1OC
<b>Mol. weight [g/mol]:</b>	519.47

## Physical Properties

Property code	Value	Unit	Source
gf	-186.13	kJ/mol	Joback Method
hf	-757.45	kJ/mol	Joback Method
hfus	64.65	kJ/mol	Joback Method
hvap	109.39	kJ/mol	Joback Method
log10ws	-9.54		Crippen Method
logp	7.502		Crippen Method
mcvol	382.020	ml/mol	McGowan Method
pc	1075.69	kPa	Joback Method
rinpol	3499.00		NIST Webbook
rinpol	3499.00		NIST Webbook
tb	1126.62	K	Joback Method
tc	1380.13	K	Joback Method
tf	710.80	K	Joback Method
vc	1.460	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1253.26	J/molxK	1126.62	Joback Method
cpg	1289.80	J/molxK	1337.88	Joback Method
cpg	1285.98	J/molxK	1295.63	Joback Method
cpg	1280.48	J/molxK	1253.38	Joback Method
cpg	1273.23	J/molxK	1211.12	Joback Method
cpg	1264.18	J/molxK	1168.87	Joback Method
cpg	1292.00	J/molxK	1380.13	Joback Method
dvisc	0.0000117	Paxs	1126.62	Joback Method

dvisc	0.0000147	Paxs	1057.32	Joback Method
dvisc	0.0000190	Paxs	988.01	Joback Method
dvisc	0.0000256	Paxs	918.71	Joback Method
dvisc	0.0000363	Paxs	849.41	Joback Method
dvisc	0.0000546	Paxs	780.10	Joback Method
dvisc	0.0000890	Paxs	710.80	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=U382873&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382873&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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