

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

<b>Inchi:</b>	InChI=1S/C21H23BrO5/c1-3-4-7-12-26-20(23)17-8-5-6-9-18(17)21(24)27-14-15-13-16(2)
<b>InchiKey:</b>	XQKFFSHAKFEDLZ-UHFFFAOYSA-N
<b>Formula:</b>	C21H23BrO5
<b>SMILES:</b>	CCCCCOC(=O)c1cccc1C(=O)OCc1cc(Br)ccc1OC
<b>Mol. weight [g/mol]:</b>	435.31

## Physical Properties

Property code	Value	Unit	Source
gf	-236.65	kJ/mol	Joback Method
hf	-633.61	kJ/mol	Joback Method
hfus	49.11	kJ/mol	Joback Method
hvap	96.03	kJ/mol	Joback Method
log10ws	-7.02		Crippen Method
logp	5.162		Crippen Method
mcvol	297.480	ml/mol	McGowan Method
pc	1635.13	kPa	Joback Method
rinpol	2897.00		NIST Webbook
rinpol	2897.00		NIST Webbook
tb	989.34	K	Joback Method
tc	1223.69	K	Joback Method
tf	643.18	K	Joback Method
vc	1.123	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	895.99	J/molxK	989.34	Joback Method
cpg	907.12	J/molxK	1028.40	Joback Method
cpg	916.79	J/molxK	1067.46	Joback Method
cpg	925.03	J/molxK	1106.52	Joback Method
cpg	931.87	J/molxK	1145.57	Joback Method
cpg	937.34	J/molxK	1184.63	Joback Method
cpg	941.45	J/molxK	1223.69	Joback Method
dvisc	0.0001824	Paxs	643.18	Joback Method

dvisc	0.0001189	Paxs	700.87	Joback Method
dvisc	0.0000827	Paxs	758.57	Joback Method
dvisc	0.0000606	Paxs	816.26	Joback Method
dvisc	0.0000462	Paxs	873.95	Joback Method
dvisc	0.0000365	Paxs	931.65	Joback Method
dvisc	0.0000296	Paxs	989.34	Joback Method

## Sources

<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=U382867&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382867&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>
<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>

## 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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