

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

Inchi:	InChI=1S/C29H39BrO5/c1-3-4-5-6-7-8-9-10-11-12-15-20-34-28(31)25-16-13-14-17-26(2
InchiKey:	KLGMMLNNFHGLAMD-UHFFFAOYSA-N
Formula:	C29H39BrO5
SMILES:	CCCCCCCCCCCCOC(=O)c1ccccc1C(=O)OCc1cc(Br)ccc1OC
Mol. weight [g/mol]:	547.52

## Physical Properties

Property code	Value	Unit	Source
gf	-169.29	kJ/mol	Joback Method
hf	-798.73	kJ/mol	Joback Method
hfus	69.83	kJ/mol	Joback Method
hvap	113.84	kJ/mol	Joback Method
log10ws	-10.37		Crippen Method
logp	8.282		Crippen Method
mcvol	410.200	ml/mol	McGowan Method
pc	952.01	kPa	Joback Method
rinpol	3701.00		NIST Webbook
rinpol	3701.00		NIST Webbook
tb	1172.38	K	Joback Method
tc	1441.68	K	Joback Method
tf	733.34	K	Joback Method
vc	1.571	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1374.74	J/molxK	1172.38	Joback Method
cpg	1385.57	J/molxK	1217.26	Joback Method
cpg	1394.28	J/molxK	1262.15	Joback Method
cpg	1400.96	J/molxK	1307.03	Joback Method
cpg	1405.71	J/molxK	1351.91	Joback Method
cpg	1408.60	J/molxK	1396.79	Joback Method
cpg	1409.72	J/molxK	1441.68	Joback Method
dvisc	0.0000688	Paxs	733.34	Joback Method

dvisc	0.0000415	Paxs	806.51	Joback Method
dvisc	0.0000272	Paxs	879.69	Joback Method
dvisc	0.0000190	Paxs	952.86	Joback Method
dvisc	0.0000140	Paxs	1026.03	Joback Method
dvisc	0.0000107	Paxs	1099.21	Joback Method
dvisc	0.0000085	Paxs	1172.38	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=U382875&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382875&amp;Units=SI</a>
<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>

## 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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