

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

<b>Inchi:</b>	InChI=1S/C26H33BrO5/c1-3-4-5-6-7-8-9-12-17-31-25(28)22-13-10-11-14-23(22)26(29)3
<b>InchiKey:</b>	TVAWJRFUHQDIQQA-UHFFFAOYSA-N
<b>Formula:</b>	C26H33BrO5
<b>SMILES:</b>	CCCCCCCCCOC(=O)c1ccccc1C(=O)OCc1cc(Br)ccc1OC
<b>Mol. weight [g/mol]:</b>	505.44

## Physical Properties

Property code	Value	Unit	Source
gf	-194.55	kJ/mol	Joback Method
hf	-736.81	kJ/mol	Joback Method
hfus	62.06	kJ/mol	Joback Method
hvap	107.16	kJ/mol	Joback Method
log10ws	-9.12		Crippen Method
logp	7.112		Crippen Method
mvol	367.930	ml/mol	McGowan Method
pc	1146.76	kPa	Joback Method
rinpol	3398.00		NIST Webbook
rinpol	3398.00		NIST Webbook
tb	1103.74	K	Joback Method
tc	1351.31	K	Joback Method
tf	699.53	K	Joback Method
vc	1.403	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1192.87	J/molxK	1103.74	Joback Method
cpg	1203.83	J/molxK	1145.00	Joback Method
cpg	1213.03	J/molxK	1186.26	Joback Method
cpg	1220.51	J/molxK	1227.52	Joback Method
cpg	1226.32	J/molxK	1268.78	Joback Method
cpg	1230.53	J/molxK	1310.04	Joback Method
cpg	1233.18	J/molxK	1351.31	Joback Method
dvisc	0.0001010	Paxs	699.53	Joback Method

dvisc	0.0000625	Paxs	766.90	Joback Method
dvisc	0.0000418	Paxs	834.27	Joback Method
dvisc	0.0000297	Paxs	901.63	Joback Method
dvisc	0.0000222	Paxs	969.00	Joback Method
dvisc	0.0000172	Paxs	1036.37	Joback Method
dvisc	0.0000137	Paxs	1103.74	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U382872&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382872&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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