

# Phthalic acid, 2-(4-bromophenoxy)ethyl undecyl ester

<b>Inchi:</b>	InChI=1S/C27H35BrO5/c1-2-3-4-5-6-7-8-9-12-19-32-26(29)24-13-10-11-14-25(24)27(30)
<b>InchiKey:</b>	ROJPDMHJWHQHSS-UHFFFAOYSA-N
<b>Formula:</b>	C27H35BrO5
<b>SMILES:</b>	CCCCCCCCCOC(=O)c1cccc1C(=O)OCCOc1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	519.47

## Physical Properties

Property code	Value	Unit	Source
gf	-176.50	kJ/mol	Joback Method
hf	-745.98	kJ/mol	Joback Method
hfus	65.04	kJ/mol	Joback Method
hvap	108.73	kJ/mol	Joback Method
log10ws	-9.07		Crippen Method
logp	7.372		Crippen Method
mvol	382.020	ml/mol	McGowan Method
pc	1086.35	kPa	Joback Method
rinpol	3533.00		NIST Webbook
rinpol	3533.00		NIST Webbook
tb	1121.64	K	Joback Method
tc	1373.94	K	Joback Method
tf	698.28	K	Joback Method
vc	1.460	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1255.06	J/molxK	1121.64	Joback Method
cpg	1294.18	J/molxK	1331.89	Joback Method
cpg	1289.64	J/molxK	1289.84	Joback Method
cpg	1283.53	J/molxK	1247.79	Joback Method
cpg	1275.78	J/molxK	1205.74	Joback Method
cpg	1266.31	J/molxK	1163.69	Joback Method
cpg	1297.23	J/molxK	1373.94	Joback Method
dvisc	0.0000113	Paxs	1121.64	Joback Method

dvisc	0.0000143	Paxs	1051.08	Joback Method
dvisc	0.0000188	Paxs	980.52	Joback Method
dvisc	0.0000257	Paxs	909.96	Joback Method
dvisc	0.0000371	Paxs	839.40	Joback Method
dvisc	0.0000572	Paxs	768.84	Joback Method
dvisc	0.0000963	Paxs	698.28	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U382900&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382900&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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