

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

Inchi:	InChI=1S/C26H33BrO5/c1-2-3-4-5-6-7-8-11-18-31-25(28)23-12-9-10-13-24(23)26(29)32
InchiKey:	HEZHFQSXHGLOLG-UHFFFAOYSA-N
Formula:	C26H33BrO5
SMILES:	CCCCCCCCCOC(=O)c1ccccc1C(=O)OCCOc1ccc(Br)cc1
Mol. weight [g/mol]:	505.44

## Physical Properties

Property code	Value	Unit	Source
gf	-184.92	kJ/mol	Joback Method
hf	-725.34	kJ/mol	Joback Method
hfus	62.45	kJ/mol	Joback Method
hvap	106.50	kJ/mol	Joback Method
log10ws	-8.66		Crippen Method
logp	6.982		Crippen Method
mcvol	367.930	ml/mol	McGowan Method
pc	1158.50	kPa	Joback Method
rinpol	3434.00		NIST Webbook
rinpol	3434.00		NIST Webbook
tb	1098.76	K	Joback Method
tc	1345.20	K	Joback Method
tf	687.01	K	Joback Method
vc	1.403	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1194.57	J/molxK	1098.76	Joback Method
cpg	1234.50	J/molxK	1304.12	Joback Method
cpg	1229.66	J/molxK	1263.05	Joback Method
cpg	1223.31	J/molxK	1221.98	Joback Method
cpg	1215.39	J/molxK	1180.91	Joback Method
cpg	1205.83	J/molxK	1139.83	Joback Method
cpg	1237.89	J/molxK	1345.20	Joback Method
dvisc	0.0000133	Paxs	1098.76	Joback Method

dvisc	0.0000168	Paxs	1030.13	Joback Method
dvisc	0.0000219	Paxs	961.51	Joback Method
dvisc	0.0000299	Paxs	892.88	Joback Method
dvisc	0.0000428	Paxs	824.26	Joback Method
dvisc	0.0000656	Paxs	755.64	Joback Method
dvisc	0.0001094	Paxs	687.01	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=U382899&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382899&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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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

Latest version available from:

<https://www.chemeo.com/cid/89-742-0/Phthalic-acid-2-4-bromophenoxy-ethyl-decyl-ester.pdf>

Generated by Cheméo on 2024-04-28 08:31:14.49460591 +0000 UTC m=+16582323.415183225.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.