

# Phthalic acid, 2-(3-bromophenyl)ethyl hexyl ester

Inchi:	InChI=1S/C22H25BrO4/c1-2-3-4-7-14-26-21(24)19-11-5-6-12-20(19)22(25)27-15-13-17-9
InchiKey:	JLTCLWBMSQWPQS-UHFFFAOYSA-N
Formula:	C22H25BrO4
SMILES:	CCCCCOC(=O)c1cccc1C(=O)OCCc1cccc(Br)c1
Mol. weight [g/mol]:	433.34

## Physical Properties

Property code	Value	Unit	Source
gf	-113.60	kJ/mol	Joback Method
hf	-510.56	kJ/mol	Joback Method
hfus	50.90	kJ/mol	Joback Method
hvap	95.19	kJ/mol	Joback Method
log10ws	-7.25		Crippen Method
logp	5.586		Crippen Method
mcvol	305.700	ml/mol	McGowan Method
pc	1553.67	kPa	Joback Method
rinpol	2988.00		NIST Webbook
rinpol	2988.00		NIST Webbook
tb	984.82	K	Joback Method
tc	1217.88	K	Joback Method
tf	619.70	K	Joback Method
vc	1.161	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	930.34	J/molxK	984.82	Joback Method
cpg	942.66	J/molxK	1023.66	Joback Method
cpg	953.69	J/molxK	1062.51	Joback Method
cpg	963.48	J/molxK	1101.35	Joback Method
cpg	972.10	J/molxK	1140.19	Joback Method
cpg	979.60	J/molxK	1179.04	Joback Method
cpg	986.02	J/molxK	1217.88	Joback Method
dvisc	0.0002520	Paxs	619.70	Joback Method

dvisc	0.0001550	Paxs	680.55	Joback Method
dvisc	0.0001033	Paxs	741.41	Joback Method
dvisc	0.0000732	Paxs	802.26	Joback Method
dvisc	0.0000544	Paxs	863.11	Joback Method
dvisc	0.0000421	Paxs	923.97	Joback Method
dvisc	0.0000336	Paxs	984.82	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=U378025&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U378025&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>

## 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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