

# 3-Bromobenzoic acid, 4-biphenyl ester

<b>Inchi:</b>	InChI=1S/C19H13BrO2/c20-17-8-4-7-16(13-17)19(21)22-18-11-9-15(10-12-18)14-5-2-1-3
<b>InchiKey:</b>	HHUWNSSMBHPCEF-UHFFFAOYSA-N
<b>Formula:</b>	C19H13BrO2
<b>SMILES:</b>	O=C(Oc1ccc(-c2ccccc2)cc1)c1cccc(Br)c1
<b>Mol. weight [g/mol]:</b>	353.21

## Physical Properties

Property code	Value	Unit	Source
gf	207.47	kJ/mol	Joback Method
hf	32.69	kJ/mol	Joback Method
hfus	34.38	kJ/mol	Joback Method
hvap	81.63	kJ/mol	Joback Method
log10ws	-7.32		Crippen Method
logp	5.335		Crippen Method
mvol	232.230	ml/mol	McGowan Method
pc	2592.49	kPa	Joback Method
rinpol	2904.00		NIST Webbook
rinpol	2904.00		NIST Webbook
tb	866.57	K	Joback Method
tc	1138.77	K	Joback Method
tf	540.15	K	Joback Method
vc	0.862	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	620.58	J/molxK	866.57	Joback Method
cpg	672.21	J/molxK	1093.41	Joback Method
cpg	664.14	J/molxK	1048.04	Joback Method
cpg	655.06	J/molxK	1002.67	Joback Method
cpg	644.85	J/molxK	957.30	Joback Method
cpg	633.40	J/molxK	911.94	Joback Method
cpg	679.40	J/molxK	1138.77	Joback Method
dvisc	0.0000748	Paxs	866.57	Joback Method

dvisc	0.0000925	Paxs	812.17	Joback Method
dvisc	0.0001179	Paxs	757.76	Joback Method
dvisc	0.0001561	Paxs	703.36	Joback Method
dvisc	0.0002167	Paxs	648.96	Joback Method
dvisc	0.0003194	Paxs	594.55	Joback Method
dvisc	0.0005089	Paxs	540.15	Joback Method

## Sources

<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=U355190&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355190&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> 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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