

# 3-Bromobenzoic acid, 3,5-dimethylphenyl ester

Inchi:	InChI=1S/C15H13BrO2/c1-10-6-11(2)8-14(7-10)18-15(17)12-4-3-5-13(16)9-12/h3-9H,1-2
InchiKey:	DBDKZGDUFHPWSD-UHFFFAOYSA-N
Formula:	C15H13BrO2
SMILES:	<chem>Cc1cc(C)cc(OC(=O)c2cccc(Br)c2)c1</chem>
Mol. weight [g/mol]:	305.17

## Physical Properties

Property code	Value	Unit	Source
gf	51.75	kJ/mol	Joback Method
hf	-132.75	kJ/mol	Joback Method
hfus	29.59	kJ/mol	Joback Method
hvap	71.11	kJ/mol	Joback Method
log10ws	-5.67		Crippen Method
logp	4.285		Crippen Method
mcvol	199.630	ml/mol	McGowan Method
pc	2695.80	kPa	Joback Method
rinpola	2115.00		NIST Webbook
tb	753.35	K	Joback Method
tc	1003.66	K	Joback Method
tf	481.17	K	Joback Method
vc	0.746	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	499.42	J/molxK	753.35	Joback Method
cpg	512.89	J/molxK	795.07	Joback Method
cpg	525.22	J/molxK	836.79	Joback Method
cpg	536.49	J/molxK	878.50	Joback Method
cpg	546.72	J/molxK	920.22	Joback Method
cpg	555.98	J/molxK	961.94	Joback Method
cpg	564.30	J/molxK	1003.66	Joback Method
dvisc	0.0006823	Paxs	481.17	Joback Method
dvisc	0.0004529	Paxs	526.53	Joback Method

dvisc	0.0003208	Paxs	571.90	Joback Method
dvisc	0.0002390	Paxs	617.26	Joback Method
dvisc	0.0001854	Paxs	662.62	Joback Method
dvisc	0.0001486	Paxs	707.99	Joback Method
dvisc	0.0001223	Paxs	753.35	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U307550&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307550&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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