

# Methyl-2-bromobenzoate

<b>Other names:</b>	Benzoic acid, 2-bromo-, methyl ester Benzoic acid, o-bromo-, methyl ester Methyl o-bromobenzoate o-Bromobenzoic acid, methyl ester
<b>Inchi:</b>	InChI=1S/C8H7BrO2/c1-11-8(10)6-4-2-3-5-7(6)9/h2-5H,1H3
<b>InchiKey:</b>	SWGQITQOBPXVRC-UHFFFAOYSA-N
<b>Formula:</b>	C8H7BrO2
<b>SMILES:</b>	COC(=O)c1ccccc1Br
<b>Mol. weight [g/mol]:</b>	215.04
<b>CAS:</b>	610-94-6

## Physical Properties

Property code	Value	Unit	Source
gf	-100.34	kJ/mol	Joback Method
hf	-201.86	kJ/mol	Joback Method
hfus	18.20	kJ/mol	Joback Method
hvap	51.93	kJ/mol	Joback Method
log10ws	-2.88		Crippen Method
logp	2.236		Crippen Method
mcvol	124.760	ml/mol	McGowan Method
pc	4135.61	kPa	Joback Method
rinpol	1334.00		NIST Webbook
rinpol	1334.00		NIST Webbook
tb	526.00 ± 1.00	K	NIST Webbook
tc	792.86	K	Joback Method
tf	350.82	K	Joback Method
vc	0.462	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	246.83	J/mol×K	556.55	Joback Method
cpg	291.72	J/mol×K	753.47	Joback Method
cpg	284.02	J/mol×K	714.09	Joback Method

cpg	275.70	J/molxK	674.70	Joback Method
cpg	266.74	J/molxK	635.32	Joback Method
cpg	257.12	J/molxK	595.93	Joback Method
cpg	298.81	J/molxK	792.86	Joback Method
dvisc	0.0002598	Paxs	556.55	Joback Method
dvisc	0.0003175	Paxs	522.26	Joback Method
dvisc	0.0003990	Paxs	487.97	Joback Method
dvisc	0.0005191	Paxs	453.69	Joback Method
dvisc	0.0007051	Paxs	419.40	Joback Method
dvisc	0.0010113	Paxs	385.11	Joback Method
dvisc	0.0015564	Paxs	350.82	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	405.00	K	2.10	NIST Webbook

## 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=C610946&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C610946&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>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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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