

# 4-Bromo-2-methylphenol

<b>Other names:</b>	o-Cresol, 4-bromo- 4-Bromo-o-cresol Phenol, 4-bromo-2-methyl-
<b>Inchi:</b>	InChI=1S/C7H7BrO/c1-5-4-6(8)2-3-7(5)9/h2-4,9H,1H3
<b>InchiKey:</b>	IWJGMJHAIUBWKT-UHFFFAOYSA-N
<b>Formula:</b>	C7H7BrO
<b>SMILES:</b>	Cc1cc(Br)ccc1O
<b>Mol. weight [g/mol]:</b>	187.03
<b>CAS:</b>	2362-12-1

## Physical Properties

Property code	Value	Unit	Source
gf	-29.46	kJ/mol	Joback Method
hf	-113.73	kJ/mol	Joback Method
hfus	18.61	kJ/mol	Joback Method
hvap	53.56	kJ/mol	Joback Method
log10ws	-2.66		Crippen Method
logp	2.463		Crippen Method
mcvol	109.100	ml/mol	McGowan Method
pc	5438.52	kPa	Joback Method
tb	538.00	K	Joback Method
tc	785.86	K	Joback Method
tf	379.11	K	Joback Method
vc	0.347	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	214.81	J/mol×K	538.00	Joback Method
cpg	253.95	J/mol×K	744.55	Joback Method
cpg	247.30	J/mol×K	703.24	Joback Method
cpg	240.16	J/mol×K	661.93	Joback Method
cpg	232.44	J/mol×K	620.62	Joback Method
cpg	224.02	J/mol×K	579.31	Joback Method

cpg	260.21	J/mol×K	785.86	Joback Method
dvisc	0.0000793	Paxs	538.00	Joback Method
dvisc	0.0001137	Paxs	511.52	Joback Method
dvisc	0.0001696	Paxs	485.04	Joback Method
dvisc	0.0002651	Paxs	458.56	Joback Method
dvisc	0.0004376	Paxs	432.07	Joback Method
dvisc	0.0007711	Paxs	405.59	Joback Method
dvisc	0.0014707	Paxs	379.11	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=C2362121&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2362121&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>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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