

# 2-(4-Bromophenyl)propionic acid

<b>Other names:</b>	Benzeneacetic acid, 4-bromo-«alpha»-methyl-2-(4-Bromophenyl)propanoic acid
<b>Inchi:</b>	InChI=1S/C9H9BrO2/c1-6(9(11)12)7-2-4-8(10)5-3-7/h2-6H,1H3,(H,11,12)
<b>InchiKey:</b>	PFDBEACWLCHWRZ-UHFFFAOYSA-N
<b>Formula:</b>	C9H9BrO2
<b>SMILES:</b>	CC(C(=O)O)c1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	229.07
<b>CAS:</b>	53086-53-6

## Physical Properties

Property code	Value	Unit	Source
gf	-126.18	kJ/mol	Joback Method
hf	-247.79	kJ/mol	Joback Method
hfus	20.17	kJ/mol	Joback Method
hvap	68.04	kJ/mol	Joback Method
log10ws	-2.92		Crippen Method
logp	2.637		Crippen Method
mvol	138.850	ml/mol	McGowan Method
pc	4249.61	kPa	Joback Method
rinpol	1574.00		NIST Webbook
tb	648.75	K	Joback Method
tc	869.08	K	Joback Method
tf	385.68	K	Joback Method
vc	0.512	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	312.58	J/molxK	648.75	Joback Method
cpg	322.00	J/molxK	685.47	Joback Method
cpg	330.75	J/molxK	722.19	Joback Method
cpg	338.88	J/molxK	758.92	Joback Method
cpg	346.41	J/molxK	795.64	Joback Method
cpg	353.40	J/molxK	832.36	Joback Method

cpg	359.87	J/molxK	869.08	Joback Method
dvisc	0.0029098	Paxs	385.68	Joback Method
dvisc	0.0011743	Paxs	429.52	Joback Method
dvisc	0.0005607	Paxs	473.37	Joback Method
dvisc	0.0003034	Paxs	517.22	Joback Method
dvisc	0.0001808	Paxs	561.06	Joback Method
dvisc	0.0001161	Paxs	604.90	Joback Method
dvisc	0.0000791	Paxs	648.75	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=C53086536&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C53086536&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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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