

# 3,5-Dibromobenzoic acid

<b>Other names:</b>	Benzoic acid, 3,5-dibromo-
<b>Inchi:</b>	InChI=1S/C7H4Br2O2/c8-5-1-4(7(10)11)2-6(9)3-5/h1-3H,(H,10,11)
<b>InchiKey:</b>	SFTFNJZWZHASAQ-UHFFFAOYSA-N
<b>Formula:</b>	C7H4Br2O2
<b>SMILES:</b>	O=C(O)c1cc(Br)cc(Br)c1
<b>Mol. weight [g/mol]:</b>	279.91
<b>CAS:</b>	618-58-6

## Physical Properties

Property code	Value	Unit	Source
gf	-135.89	kJ/mol	Joback Method
hf	-186.37	kJ/mol	Joback Method
hfus	23.41	kJ/mol	Joback Method
hvap	71.07	kJ/mol	Joback Method
log10ws	-3.86		Crippen Method
logp	2.910		Crippen Method
mcvol	128.170	ml/mol	McGowan Method
pc	5953.74	kPa	Joback Method
tb	674.57	K	Joback Method
tc	911.01	K	Joback Method
tf	491.20	K	Vapor pressures, standard molar enthalpies, entropies Gibbs energies of sublimation and heat capacities of 2,5- and 3,5-dibromobenzoic acids
vc	0.469	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	243.39	J/molxK	674.57	Joback Method
cpg	249.49	J/molxK	713.98	Joback Method
cpg	255.10	J/molxK	753.38	Joback Method
cpg	260.26	J/molxK	792.79	Joback Method

cpg	265.01	J/mol×K	832.20	Joback Method
cpg	269.40	J/mol×K	871.60	Joback Method
cpg	273.46	J/mol×K	911.01	Joback Method
dvisc	0.0011214	Paxs	450.46	Joback Method
dvisc	0.0006253	Paxs	487.81	Joback Method
dvisc	0.0003789	Paxs	525.16	Joback Method
dvisc	0.0002454	Paxs	562.51	Joback Method
dvisc	0.0001678	Paxs	599.87	Joback Method
dvisc	0.0001199	Paxs	637.22	Joback Method
dvisc	0.0000890	Paxs	674.57	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=C618586&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C618586&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>
<b>Vapor pressures, standard molar enthalpies, entropies Gibbs energies of sublimation and heat capacities of 2,5- and 3,5-dibromobenzoic acids:</b>	<a href="https://www.doi.org/10.1016/j.fluid.2012.11.006">https://www.doi.org/10.1016/j.fluid.2012.11.006</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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