

Benzoic acid, 3,5-dibromo-

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

Physical Properties

Property code	Value	Unit	Source
af	0.6949		Cheméo Relay (1.0)
gf	-135.89	kJ/mol	Joback Method
hf	-265.72	kJ/mol	Cheméo Relay (1.0)
hfus	23.41	kJ/mol	Joback Method
hvap	99.76	kJ/mol	Cheméo Relay (1.0)
ie	9.48	eV	Cheméo Relay (1.0)
log10ws	-3.87		Cheméo Relay (1.0)
logp	2.910		Crippen Method
mcvol	128.170	ml/mol	McGowan Method
pc	5953.74	kPa	Joback Method
tb	574.09	K	Cheméo Relay (1.0)
tc	838.95	K	Cheméo Relay (1.0)
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	0.427	m3/kmol	

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	243.39	J/mol×K	674.57	Joback Method
cpg	273.46	J/mol×K	911.01	Joback Method
cpg	269.40	J/mol×K	871.60	Joback Method

cpg	265.01	J/mol×K	832.20	Joback Method
cpg	260.26	J/mol×K	792.79	Joback Method
cpg	255.10	J/mol×K	753.38	Joback Method
cpg	249.49	J/mol×K	713.98	Joback Method
dvisc	0.0002454	Pa×s	562.52	Joback Method
dvisc	0.0000890	Pa×s	674.57	Joback Method
dvisc	0.0001199	Pa×s	637.22	Joback Method
dvisc	0.0001678	Pa×s	599.87	Joback Method
dvisc	0.0011214	Pa×s	450.46	Joback Method
dvisc	0.0003789	Pa×s	525.16	Joback Method
dvisc	0.0006253	Pa×s	487.81	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
Vapor pressures, standard molar enthalpies, entropies Gibbs energies of formation and heat capacities of 2,5- and 3,5-dibromobenzoic acids:	https://www.doi.org/10.1016/j.fluid.2012.11.006 http://webbook.nist.gov/cgi/cbook.cgi?ID=C618586&Units=SI

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature

tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/32-375-0/Benzoic-acid-3-5-dibromo.pdf>

Generated by Cheméo on 2026-07-21 21:11:13.685921629 +0000 UTC m=+179369.527807005.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.