

# Bicyclo[4.2.0]octa-1,3,5-triene, 7-bromo-

<b>Other names:</b>	1-bromobenzocyclobutene
<b>Inchi:</b>	InChI=1S/C8H7Br/c9-8-5-6-3-1-2-4-7(6)8/h1-4,8H,5H2
<b>InchiKey:</b>	AYNXHFRDABNHRX-UHFFFAOYSA-N
<b>Formula:</b>	C8H7Br
<b>SMILES:</b>	BrC1Cc2ccccc21
<b>Mol. weight [g/mol]:</b>	183.04
<b>CAS:</b>	21120-91-2

## Physical Properties

Property code	Value	Unit	Source
gf	206.43	kJ/mol	Joback Method
hf	121.90	kJ/mol	Joback Method
hfus	15.65	kJ/mol	Joback Method
hvap	42.52	kJ/mol	Joback Method
log10ws	-3.03		Crippen Method
logp	2.679		Crippen Method
mcvol	106.460	ml/mol	McGowan Method
pc	4468.24	kPa	Joback Method
tb	482.73	K	Joback Method
tc	722.52	K	Joback Method
tf	300.12	K	Joback Method
vc	0.403	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	198.50	J/mol×K	482.73	Joback Method
cpg	210.28	J/mol×K	522.70	Joback Method
cpg	221.02	J/mol×K	562.66	Joback Method
cpg	230.82	J/mol×K	602.63	Joback Method
cpg	239.77	J/mol×K	642.59	Joback Method
cpg	247.97	J/mol×K	682.56	Joback Method
cpg	255.51	J/mol×K	722.52	Joback Method
dvisc	0.0014198	Paxs	300.12	Joback Method

dvisc	0.0011806	Paxs	330.56	Joback Method
dvisc	0.0010127	Paxs	360.99	Joback Method
dvisc	0.0008896	Paxs	391.42	Joback Method
dvisc	0.0007963	Paxs	421.86	Joback Method
dvisc	0.0007235	Paxs	452.29	Joback Method
dvisc	0.0006653	Paxs	482.73	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C21120912&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C21120912&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.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>

## 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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