

# 3,5-Dibromocyclopentene

<b>Inchi:</b>	InChI=1S/C5H6Br2/c6-4-1-2-5(7)3-4/h1-2,4-5H,3H2
<b>InchiKey:</b>	AKAJVSSDORNNOIX-UHFFFAOYSA-N
<b>Formula:</b>	C5H6Br2
<b>SMILES:</b>	BrC1C=CC(Br)C1
<b>Mol. weight [g/mol]:</b>	225.91
<b>CAS:</b>	1890-04-6

## Physical Properties

Property code	Value	Unit	Source
gf	78.66	kJ/mol	Joback Method
hf	4.05	kJ/mol	Joback Method
hfus	15.50	kJ/mol	Joback Method
hvap	39.83	kJ/mol	Joback Method
log10ws	-2.75		Crippen Method
logp	2.473		Crippen Method
mcvol	101.150	ml/mol	McGowan Method
pc	5273.90	kPa	Joback Method
tb	455.89	K	Joback Method
tc	698.47	K	Joback Method
tf	273.13	K	Joback Method
vc	0.365	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	162.42	J/molxK	455.89	Joback Method
cpg	208.31	J/molxK	658.04	Joback Method
cpg	200.58	J/molxK	617.61	Joback Method
cpg	192.18	J/molxK	577.18	Joback Method
cpg	183.06	J/molxK	536.75	Joback Method
cpg	173.15	J/molxK	496.32	Joback Method
cpg	215.42	J/molxK	698.47	Joback Method
dvisc	0.0005295	Paxs	455.89	Joback Method
dvisc	0.0006116	Paxs	425.43	Joback Method

dvisc	0.0007224	Paxs	394.97	Joback Method
dvisc	0.0008772	Paxs	364.51	Joback Method
dvisc	0.0011038	Paxs	334.05	Joback Method
dvisc	0.0014543	Paxs	303.59	Joback Method
dvisc	0.0020378	Paxs	273.13	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=C1890046&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1890046&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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