

# 3-Chlorobenzal bromide

<b>Other names:</b>	Benzene, 1-chloro-3-(dibromomethyl)- Toluene, m-chloro-alpha,alpha-dibromo- 1-chloro-3-(dibromomethyl)benzene
<b>Inchi:</b>	InChI=1S/C7H5Br2Cl/c8-7(9)5-2-1-3-6(10)4-5/h1-4,7H
<b>InchiKey:</b>	GXTJYNIKOLTVNC-UHFFFAOYSA-N
<b>Formula:</b>	C7H5Br2Cl
<b>SMILES:</b>	Clc1cccc(C(Br)Br)c1
<b>Mol. weight [g/mol]:</b>	284.38
<b>CAS:</b>	70288-97-0

## Physical Properties

Property code	Value	Unit	Source
gf	125.11	kJ/mol	Joback Method
hf	68.89	kJ/mol	Joback Method
hfus	18.78	kJ/mol	Joback Method
hvap	50.98	kJ/mol	Joback Method
log10ws	-4.36		Crippen Method
logp	4.128		Crippen Method
mcvol	132.970	ml/mol	McGowan Method
pc	4659.34	kPa	Joback Method
tb	560.53	K	Joback Method
tc	822.28	K	Joback Method
tf	342.11	K	Joback Method
vc	0.486	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	224.88	J/molxK	560.53	Joback Method
cpg	261.81	J/molxK	778.66	Joback Method
cpg	255.78	J/molxK	735.03	Joback Method
cpg	249.14	J/molxK	691.41	Joback Method
cpg	241.83	J/molxK	647.78	Joback Method
cpg	233.77	J/molxK	604.16	Joback Method

cpg	267.32	J/mol×K	822.28	Joback Method
dvisc	0.0002883	Paxs	560.53	Joback Method
dvisc	0.0003572	Paxs	524.13	Joback Method
dvisc	0.0004570	Paxs	487.72	Joback Method
dvisc	0.0006085	Paxs	451.32	Joback Method
dvisc	0.0008518	Paxs	414.92	Joback Method
dvisc	0.0012721	Paxs	378.51	Joback Method
dvisc	0.0020692	Paxs	342.11	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C70288970&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C70288970&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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