# Benzene, 1-bromo-3,5-dichloro-

**Other names:** 1-Bromo-3,5-dichlorobenzene
3,5-Dichlorobromobenzene
**Inchi:** InChI=1S/C6H3BrCl2/c7-4-1-5(8)3-6(9)2-4/h1-3H
**InchiKey:** DZHFFMWJXJBBRG-UHFFFAOYSA-N
**Formula:** C6H3BrCl2
**SMILES:** Clc1cc(Cl)cc(Br)c1
**Mol. weight [g/mol]:** 225.90
**CAS:** 19752-55-7

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 83.25 | kJ/mol | Joback Method |
| hf | 41.27 | kJ/mol | Joback Method |
| hfus | 18.24 | kJ/mol | Joback Method |
| hvap | 47.75 | kJ/mol | Joback Method |
| log10ws | -4.00 | | Crippen Method |
| logp | 3.756 | | Crippen Method |
| mcvol | 113.620 | ml/mol | McGowan Method |
| pc | 4456.32 | kPa | Joback Method |
| tb | 505.00 | K | NIST Webbook |
| tc | 765.53 | K | Joback Method |
| tf | 356.00 ± 1.00 | K | NIST Webbook |
| vc | 0.423 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 175.54 | J/mol×K | 514.34 | Joback Method |
| cpg | 182.63 | J/mol×K | 556.21 | Joback Method |
| cpg | 189.15 | J/mol×K | 598.07 | Joback Method |
| cpg | 195.13 | J/mol×K | 639.94 | Joback Method |
| cpg | 200.60 | J/mol×K | 681.80 | Joback Method |
| cpg | 205.61 | J/mol×K | 723.67 | Joback Method |
| cpg | 210.20 | J/mol×K | 765.53 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0015755 | Pa×s | 328.48 | Joback Method |
| dvisc | 0.0010816 | Pa×s | 359.46 | Joback Method |
| dvisc | 0.0007882 | Pa×s | 390.43 | Joback Method |
| dvisc | 0.0006017 | Pa×s | 421.41 | Joback Method |
| dvisc | 0.0004767 | Pa×s | 452.39 | Joback Method |
| dvisc | 0.0003891 | Pa×s | 483.36 | Joback Method |
| dvisc | 0.0003254 | Pa×s | 514.34 | Joback Method |

# Pressure Dependent Properties

| Property code | Value | Unit | Pressure [kPa] | Source |
|---|---|---|---|---|
| tbrp | 505.20 | K | 101.00 | NIST Webbook |

# Sources

**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C19752557&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws
**Joback Method:** https://en.wikipedia.org/wiki/Joback_method

# Legend

**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
**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
**tbrp:** Boiling point at reduced pressure

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