

Phenol, 2-bromo-4-chloro-

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|-----------------------------|---|
| Other names: | 2-Bromo-4-chlorophenol |
| Inchi: | InChI=1S/C6H4BrClO/c7-5-3-4(8)1-2-6(5)9/h1-3,9H |
| InchiKey: | ZIYRDJLAJYTELF-UHFFFAOYSA-N |
| Formula: | C6H4BrClO |
| SMILES: | Oc1ccc(Cl)cc1Br |
| Mol. weight [g/mol]: | 207.45 |
| CAS: | 695-96-5 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -49.81 | kJ/mol | Joback Method |
| hf | -108.83 | kJ/mol | Joback Method |
| hfus | 20.21 | kJ/mol | Joback Method |
| hvap | 55.72 | kJ/mol | Joback Method |
| log10ws | -2.87 | | Crippen Method |
| logp | 2.808 | | Crippen Method |
| mcvol | 107.250 | ml/mol | McGowan Method |
| pc | 5944.56 | kPa | Joback Method |
| tb | 552.55 | K | Joback Method |
| tc | 810.23 | K | Joback Method |
| tf | 397.76 | K | Joback Method |
| vc | 0.341 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 193.10 | J/molxK | 552.55 | Joback Method |
| cpg | 200.12 | J/molxK | 595.50 | Joback Method |
| cpg | 206.43 | J/molxK | 638.44 | Joback Method |
| cpg | 212.15 | J/molxK | 681.39 | Joback Method |
| cpg | 217.39 | J/molxK | 724.33 | Joback Method |
| cpg | 222.25 | J/molxK | 767.28 | Joback Method |
| cpg | 226.87 | J/molxK | 810.23 | Joback Method |
| dvisc | 0.0011327 | Paxs | 397.76 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0006305 | Paxs | 423.56 | Joback Method |
| dvisc | 0.0003753 | Paxs | 449.36 | Joback Method |
| dvisc | 0.0002364 | Paxs | 475.15 | Joback Method |
| dvisc | 0.0001561 | Paxs | 500.95 | Joback Method |
| dvisc | 0.0001074 | Paxs | 526.75 | Joback Method |
| dvisc | 0.0000765 | Paxs | 552.55 | Joback Method |

Pressure Dependent Properties

| Property code | Value | Unit | Pressure [kPa] | Source |
|---------------|--------|------|----------------|--------------|
| tbrp | 395.20 | K | 1.30 | NIST Webbook |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C695965&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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

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<https://www.chemeo.com/cid/98-579-2/Phenol-2-bromo-4-chloro.pdf>

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