

Phenol, 2-bromo-4-methyl-

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| Other names: | 2-Bromo-p-cresol 3-Bromo-4-hydroxytoluene 2-Bromo-4-methylphenol p-Cresol, 2-bromo- |
| Inchi: | InChI=1S/C7H7BrO/c1-5-2-3-7(9)6(8)4-5/h2-4,9H,1H3 |
| InchiKey: | MTIDYGLTAOZOGU-UHFFFAOYSA-N |
| Formula: | C7H7BrO |
| SMILES: | Cc1ccc(O)c(Br)c1 |
| Mol. weight [g/mol]: | 187.03 |
| CAS: | 6627-55-0 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------------|----------------------|----------------|
| gf | -29.46 | kJ/mol | Joback Method |
| hf | -113.73 | kJ/mol | Joback Method |
| hfus | 18.61 | kJ/mol | Joback Method |
| hvap | 53.56 | kJ/mol | Joback Method |
| log10ws | -2.66 | | Crippen Method |
| logp | 2.463 | | Crippen Method |
| mcvol | 109.100 | ml/mol | McGowan Method |
| pc | 5438.52 | kPa | Joback Method |
| rinpol | 1153.50 | | NIST Webbook |
| rinpol | 1153.50 | | NIST Webbook |
| tb | 486.70 | K | NIST Webbook |
| tc | 785.86 | K | Joback Method |
| tf | 328.00 ± 0.50 | K | NIST Webbook |
| vc | 0.347 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 214.81 | J/mol×K | 538.00 | Joback Method |
| cpg | 253.95 | J/mol×K | 744.55 | Joback Method |
| cpg | 247.30 | J/mol×K | 703.24 | Joback Method |

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|-------|-----------|---------|--------|---------------|
| cpg | 240.16 | J/molxK | 661.93 | Joback Method |
| cpg | 232.44 | J/molxK | 620.62 | Joback Method |
| cpg | 224.02 | J/molxK | 579.31 | Joback Method |
| cpg | 260.21 | J/molxK | 785.86 | Joback Method |
| dvisc | 0.0000793 | Paxs | 538.00 | Joback Method |
| dvisc | 0.0001137 | Paxs | 511.52 | Joback Method |
| dvisc | 0.0001696 | Paxs | 485.04 | Joback Method |
| dvisc | 0.0002651 | Paxs | 458.56 | Joback Method |
| dvisc | 0.0004376 | Paxs | 432.07 | Joback Method |
| dvisc | 0.0007711 | Paxs | 405.59 | Joback Method |
| dvisc | 0.0014707 | Paxs | 379.11 | Joback Method |

Sources

| | |
|------------------------|---|
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C6627550&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

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 |
| rinpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

Latest version available from:

<https://www.chemeo.com/cid/21-953-0/Phenol-2-bromo-4-methyl.pdf>

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