

2-Hydroxy-5-nitrobenzyl bromide

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| Other names: | «alpha»-Bromo-4-nitro-o-cresol Phenol, 2-(bromomethyl)-4-nitro-o-Cresol, «alpha»-bromo-4-nitro-Alpha-bromo-4-nitro-O-cresol |
| Inchi: | InChI=1S/C7H6BrNO3/c8-4-5-3-6(9(11)12)1-2-7(5)10/h1-3,10H,4H2 |
| InchiKey: | KFDPCYZHENQOBV-UHFFFAOYSA-N |
| Formula: | C7H6BrNO3 |
| SMILES: | O=[N+](O)c1ccc(O)c(CBr)c1 |
| Mol. weight [g/mol]: | 232.03 |
| CAS: | 772-33-8 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 6.09 | kJ/mol | Joback Method |
| hf | -124.49 | kJ/mol | Joback Method |
| hfus | 29.97 | kJ/mol | Joback Method |
| hvap | 70.15 | kJ/mol | Joback Method |
| log10ws | -2.98 | | Crippen Method |
| logp | 2.195 | | Crippen Method |
| mcvol | 126.520 | ml/mol | McGowan Method |
| pc | 5536.07 | kPa | Joback Method |
| tb | 689.84 | K | Joback Method |
| tc | 961.43 | K | Joback Method |
| tf | 522.72 | K | Joback Method |
| vc | 0.429 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 288.25 | J/molxK | 689.84 | Joback Method |
| cpg | 296.48 | J/molxK | 735.10 | Joback Method |
| cpg | 304.08 | J/molxK | 780.37 | Joback Method |
| cpg | 311.18 | J/molxK | 825.63 | Joback Method |
| cpg | 317.94 | J/molxK | 870.90 | Joback Method |

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|-----|--------|---------|--------|---------------|
| cpg | 324.51 | J/mol×K | 916.16 | Joback Method |
| cpg | 331.01 | J/mol×K | 961.43 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C772338&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 |
| 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 |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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