

4,5-Dichloro-2-nitroaniline

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| Other names: | Benzenamine, 4,5-dichloro-2-nitro- |
| Inchi: | InChI=1S/C6H4Cl2N2O2/c7-3-1-5(9)6(10(11)12)2-4(3)8/h1-2H,9H2 |
| InchiKey: | FSGTULQLEVAYRS-UHFFFAOYSA-N |
| Formula: | C6H4Cl2N2O2 |
| SMILES: | <chem>Nc1cc(Cl)c(Cl)cc1[N+](=O)[O-]</chem> |
| Mol. weight [g/mol]: | 207.01 |
| CAS: | 6641-64-1 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------------|---------|----------------|
| gf | 161.30 | kJ/mol | Joback Method |
| hf | 26.50 | kJ/mol | Joback Method |
| hfus | 29.12 | kJ/mol | Joback Method |
| hsub | 109.40 ± 0.90 | kJ/mol | NIST Webbook |
| hvap | 69.21 | kJ/mol | Joback Method |
| log10ws | -3.13 | | Crippen Method |
| logp | 2.484 | | Crippen Method |
| mcvol | 123.520 | ml/mol | McGowan Method |
| pc | 4368.40 | kPa | Joback Method |
| tb | 677.53 | K | Joback Method |
| tc | 948.30 | K | Joback Method |
| tf | 508.07 | K | Joback Method |
| vc | 0.472 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 260.08 | J/molxK | 677.53 | Joback Method |
| cpg | 267.57 | J/molxK | 722.66 | Joback Method |
| cpg | 274.37 | J/molxK | 767.79 | Joback Method |
| cpg | 280.54 | J/molxK | 812.91 | Joback Method |
| cpg | 286.09 | J/molxK | 858.04 | Joback Method |
| cpg | 291.07 | J/molxK | 903.17 | Joback Method |
| cpg | 295.51 | J/molxK | 948.30 | Joback Method |

Sources

| | |
|------------------------|---|
| 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 |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C6641641&Units=SI |

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 |
| hsub: | Enthalpy of sublimation at standard conditions |
| hsubt: | Enthalpy of sublimation at a given temperature |
| 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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