# Benzenamine, 4-chloro-N-sulfinyl-

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|---|---|
| **Other names:** | Aniline, p-chloro-N-sulfinyl- |
| | (p-Chlorophenyl)sulfinylamine |
| | p-Chloro-N-sulfinylaniline |
| | N-Sulfinyl-p-chloroaniline |
| | Thionyl-p-chloroaniline |
| | 4-Chlorosulfinylaniline |
| | p-Chloro-N-thionylaniline |
| | 4-Chloro-N-sulfinylbenzenamine |
| | 4-Chloro-N-sulfinylaniline |
| **Inchi:** | InChI=1S/C6H4ClNOS/c7-5-1-3-6(4-2-5)8-10-9/h1-4H |
| **InchiKey:** | GTKDDSPQJMLGOM-UHFFFAOYSA-N |
| **Formula:** | C6H4ClNOS |
| **SMILES:** | O=S=Nc1ccc(Cl)cc1 |
| **Mol. weight [g/mol]:** | 173.62 |
| **CAS:** | 13165-68-9 |

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -84.17 | kJ/mol | Joback Method |
| hvap | 52.19 | kJ/mol | Joback Method |
| log10ws | -1.93 | | Crippen Method |
| logp | 2.368 | | Crippen Method |
| mcvol | 111.780 | ml/mol | McGowan Method |
| pc | 4351.13 | kPa | Joback Method |
| tb | 537.95 | K | Joback Method |
| tc | 781.91 | K | Joback Method |

# Sources

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|---|---|
| **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=C13165689&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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|---|---|
| **hf:** | Enthalpy of formation 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 |