# Dichlorphenamide

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|---|---|
| **Other names:** | 1,3-Benzenedisulfonamide, 4,5-dichloro-<br>m-Benzenedisulfonamide, 4,5-dichloro-<br>CB 8000<br>Daranide<br>Dasanide<br>Dichlofenamide<br>4,5-Dichloro-m-benzenedisulfonamide<br>4,5-Dichloro-1,3-disulfamoylbenzene<br>Dichlorophenamide<br>3,4-Dichloro-5-sulfamylbenzenesulfonamide<br>1,3-Disulfamyl-4,5-dichlorobenzene<br>Oratrol<br>Diclofenamide<br>4,5-Dichloro-m-benzendisulfonamide<br>Antidrasi<br>1,3-Disulfamoyl-4,5-dichlorobenzene<br>Glaucol |
| **Inchi:** | InChI=1S/C6H6Cl2N2O4S2/c7-4-1-3(15(9,11)12)2-5(6(4)8)16(10,13)14/h1-2H,(H2,9,11,1 |
| **InchiKey:** | GJQPMPFPNINLKP-UHFFFAOYSA-N |
| **Formula:** | C6H6Cl2N2O4S2 |
| **SMILES:** | NS(=O)(=O)c1cc(Cl)c(Cl)c(S(N)(=O)=O)c1 |
| **Mol. weight [g/mol]:** | 305.16 |
| **CAS:** | 120-97-8 |

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -744.88 | kJ/mol | Joback Method |
| hf | -835.65 | kJ/mol | Joback Method |
| hfus | 45.71 | kJ/mol | Joback Method |
| hvap | 100.53 | kJ/mol | Joback Method |
| log10ws | -2.24 | | Crippen Method |
| logp | 0.288 | | Crippen Method |
| mcvol | 172.260 | ml/mol | McGowan Method |
| pc | 7457.32 | kPa | Joback Method |
| tb | 693.78 | K | Joback Method |
| tc | 924.93 | K | Joback Method |
| tf | 524.84 | K | Joback Method |

| | | | |
|---|---|---|---|
| vc | 0.671 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 385.81 | J/mol×K | 693.78 | Joback Method |
| cpg | 394.35 | J/mol×K | 732.31 | Joback Method |
| cpg | 402.03 | J/mol×K | 770.83 | Joback Method |
| cpg | 408.80 | J/mol×K | 809.36 | Joback Method |
| cpg | 414.64 | J/mol×K | 847.88 | Joback Method |
| cpg | 419.54 | J/mol×K | 886.41 | Joback Method |
| cpg | 423.45 | J/mol×K | 924.93 | Joback Method |

# Sources

**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**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=C120978&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
**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