

1,3-Benzenediamine, 4-methoxy-

| | |
|-----------------------------|---|
| Other names: | m-Phenylenediamine, 4-methoxy- C.I. Oxidation Base 12 C.I. 76050 Furro L Pelagol DA Pelagol Grey L Pelagol L 1,3-Diamino-4-methoxybenzene 2,4-Diaminoanisole 4-Methoxy-m-phenylenediamine 4-Methoxy-1,3-phenylenediamine Anisole, 2,4-diamino- 2,4 DAA 2,4-Diamineanisole 2,4-Diaminoanisol 2,4-Diaminoanisole base m-Diaminoanisole 1,3-diamino-4-methoxybenzene 2,4-Diamino-1-methoxybenzene 4-Methoxy-1,3-benzenediamine p-Methoxy-m-phenylenediamine 4-MMPD |
| Inchi: | InChI=1S/C7H10N2O/c1-10-7-3-2-5(8)4-6(7)9/h2-4H,8-9H2,1H3 |
| InchiKey: | BAHPQISAXRFLCL-UHFFFAOYSA-N |
| Formula: | C7H10N2O |
| SMILES: | COc1ccc(N)cc1N |
| Mol. weight [g/mol]: | 138.17 |
| CAS: | 615-05-4 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|--------|--------|----------------|
| gf | 129.11 | kJ/mol | Joback Method |
| hf | -38.86 | kJ/mol | Joback Method |
| hfus | 18.73 | kJ/mol | Joback Method |
| hvap | 58.47 | kJ/mol | Joback Method |
| log10ws | -0.86 | | Crippen Method |
| logp | 0.860 | | Crippen Method |

| | | | |
|------|---------|----------------------|----------------|
| mvol | 111.560 | ml/mol | McGowan Method |
| pc | 4492.23 | kPa | Joback Method |
| tb | 563.68 | K | Joback Method |
| tc | 800.40 | K | Joback Method |
| tf | 408.86 | K | Joback Method |
| vc | 0.396 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 258.94 | J/mol×K | 563.68 | Joback Method |
| cpg | 269.93 | J/mol×K | 603.13 | Joback Method |
| cpg | 280.29 | J/mol×K | 642.59 | Joback Method |
| cpg | 290.02 | J/mol×K | 682.04 | Joback Method |
| cpg | 299.14 | J/mol×K | 721.49 | Joback Method |
| cpg | 307.64 | J/mol×K | 760.95 | Joback Method |
| cpg | 315.52 | J/mol×K | 800.40 | 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=C615054&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 |
| hvp: | 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 |

Latest version available from:

<https://www.cheméo.com/cid/11-475-2/1-3-Benzenediamine-4-methoxy.pdf>

Generated by Cheméo on 2026-05-18 12:15:14.859986198 +0000 UTC m=+2871863.918068419.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.