

2,5-Dimethyl-4'-methoxyazobenzene

| | |
|-----------------------------|--|
| Inchi: | InChI=1S/C15H16N2O/c1-11-4-5-12(2)15(10-11)17-16-13-6-8-14(18-3)9-7-13/h4-10H,1- |
| InchiKey: | LUPLQCHWPCDOAA-WUKNDPDISA-N |
| Formula: | C15H16N2O |
| SMILES: | COc1ccc(N=Nc2cc(C)ccc2C)cc1 |
| Mol. weight [g/mol]: | 240.30 |
| CAS: | 88578-22-7 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|--------|----------------|
| chs | -8734.14 | kJ/mol | NIST Webbook |
| hf | 0.72 | kJ/mol | Joback Method |
| hfs | 544.76 | kJ/mol | NIST Webbook |
| hvap | 64.60 | kJ/mol | Joback Method |
| log10ws | -4.58 | | Crippen Method |
| logp | 4.727 | | Crippen Method |
| mcvol | 196.220 | ml/mol | McGowan Method |
| pc | 1857.91 | kPa | Joback Method |
| tb | 782.52 | K | Joback Method |
| tc | 1033.01 | K | 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=C88578227&Units=SI |

Legend

chs: Standard solid enthalpy of combustion

| | |
|----------------------------|--|
| hf: | Enthalpy of formation at standard conditions |
| hfs: | Solid phase enthalpy of formation at standard conditions |
| h_{vap}: | Enthalpy of vaporization at standard conditions |
| log₁₀ws: | Log ₁₀ of Water solubility in mol/l |
| log_p: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |

Latest version available from:

<https://www.cheméo.com/cid/50-711-6/2-5-Dimethyl-4-methoxyazobenzene.pdf>

Generated by Cheméo on 2024-04-09 08:19:08.59401517 +0000 UTC m=+14939997.514592480.

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