

Methoxyacetamide, N,N-didecyl-

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|-----------------------------|---|
| Inchi: | InChI=1S/C23H47NO2/c1-4-6-8-10-12-14-16-18-20-24(23(25)22-26-3)21-19-17-15-13-1 |
| InchiKey: | JGYLYWVZTCJURY-UHFFFAOYSA-N |
| Formula: | C23H47NO2 |
| SMILES: | CCCCCCCCCN(CCCCCCCCCC)C(=O)COC |
| Mol. weight [g/mol]: | 369.62 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 19.64 | kJ/mol | Joback Method |
| hf | -695.32 | kJ/mol | Joback Method |
| hfus | 61.13 | kJ/mol | Joback Method |
| hvap | 77.99 | kJ/mol | Joback Method |
| log10ws | -6.88 | | Crippen Method |
| logp | 6.743 | | Crippen Method |
| mvol | 352.350 | ml/mol | McGowan Method |
| pc | 874.28 | kPa | Joback Method |
| rinpol | 2640.00 | | NIST Webbook |
| rinpol | 2640.00 | | NIST Webbook |
| tb | 814.37 | K | Joback Method |
| tc | 997.13 | K | Joback Method |
| tf | 453.60 | K | Joback Method |
| vc | 1.365 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1138.15 | J/molxK | 814.37 | Joback Method |
| cpg | 1159.49 | J/molxK | 844.83 | Joback Method |
| cpg | 1179.71 | J/molxK | 875.29 | Joback Method |
| cpg | 1198.82 | J/molxK | 905.75 | Joback Method |
| cpg | 1216.88 | J/molxK | 936.21 | Joback Method |
| cpg | 1233.93 | J/molxK | 966.67 | Joback Method |
| cpg | 1250.00 | J/molxK | 997.13 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=U308498&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |

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 |
| rinp: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

Latest version available from:

<https://www.chemeo.com/cid/41-942-0/Methoxyacetamide-N-N-didecyl.pdf>

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