# Ethylamine, 2-(2-methoxyethoxy)-

**Other names:** Ethanamine, 2-(2-methoxyethoxy)-
**Inchi:** InChI=1S/C5H13NO2/c1-7-4-5-8-3-2-6/h2-6H2,1H3
**InchiKey:** QWCGXANSAOXRFE-UHFFFAOYSA-N
**Formula:** C5H13NO2
**SMILES:** COCCOCCN
**Mol. weight [g/mol]:** 119.16
**CAS:** 31576-51-9

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -152.33 | kJ/mol | Joback Method |
| hf | -377.18 | kJ/mol | Joback Method |
| hfus | 16.28 | kJ/mol | Joback Method |
| hvap | 42.19 | kJ/mol | Joback Method |
| log10ws | 0.48 | | Crippen Method |
| logp | -0.392 | | Crippen Method |
| mcvol | 103.030 | ml/mol | McGowan Method |
| pc | 3564.27 | kPa | Joback Method |
| tb | 431.17 | K | Joback Method |
| tc | 611.89 | K | Joback Method |
| tf | 273.83 | K | Joback Method |
| vc | 0.381 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 217.51 | J/mol×K | 431.17 | Joback Method |
| cpg | 227.21 | J/mol×K | 461.29 | Joback Method |
| cpg | 236.66 | J/mol×K | 491.41 | Joback Method |
| cpg | 245.85 | J/mol×K | 521.53 | Joback Method |
| cpg | 254.77 | J/mol×K | 551.65 | Joback Method |
| cpg | 263.41 | J/mol×K | 581.77 | Joback Method |
| cpg | 271.77 | J/mol×K | 611.89 | Joback Method |

# Sources

| | |
|---|---|
| **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=C31576519&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# 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 |

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