# 2,2',2''-Nitrilotriethanol, methyl ether

**Other names:** 2,2'-[(2-Methoxyethyl)azanediyl]diethanol
**Inchi:** InChI=1S/C7H17NO3/c1-11-7-4-8(2-5-9)3-6-10/h9-10H,2-7H2,1H3
**InchiKey:** LANTZOPUEMHZGG-UHFFFAOYSA-N
**Formula:** C7H17NO3
**SMILES:** COCCN(CCO)CCO
**Mol. weight [g/mol]:** 163.21

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -259.80 | kJ/mol | Joback Method |
| hf | -556.96 | kJ/mol | Joback Method |
| hfus | 26.27 | kJ/mol | Joback Method |
| hvap | 68.99 | kJ/mol | Joback Method |
| log10ws | 1.06 | | Crippen Method |
| logp | -1.081 | | Crippen Method |
| mcvol | 137.080 | ml/mol | McGowan Method |
| pc | 3360.64 | kPa | Joback Method |
| rinpol | 1337.00 | | NIST Webbook |
| tb | 578.78 | K | Joback Method |
| tc | 735.57 | K | Joback Method |
| tf | 344.99 | K | Joback Method |
| vc | 0.501 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 357.42 | J/mol×K | 578.78 | Joback Method |
| cpg | 367.33 | J/mol×K | 604.91 | Joback Method |
| cpg | 376.85 | J/mol×K | 631.04 | Joback Method |
| cpg | 385.98 | J/mol×K | 657.18 | Joback Method |
| cpg | 394.75 | J/mol×K | 683.31 | Joback Method |
| cpg | 403.15 | J/mol×K | 709.44 | Joback Method |
| cpg | 411.20 | J/mol×K | 735.57 | Joback Method |

# Sources

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|---|---|
| **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=U378697&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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