

1401
MW

C₃H₉NO

2-Methoxyethylamine
2-Methoxyethanamine

C₁
H₃C–O–CH₂–CH₂–NH₂

| r_0 | Å | θ_0 | deg |
|-------|---------------------|------------------------|---------------------|
| C–C | 1.526 ^{a)} | C–N–H | 111.2(9) |
| C–N | 1.475 ^{a)} | C–C–N | 112.2(12) |
| C–O | 1.41 ^{a)} | O–C–C | 110.3(10) |
| C–H | 1.09 ^{a)} | C–O–C | 113.2(14) |
| N–H | 1.017 ^{a)} | C–C–H or O–C–H | 109.0 ^{a)} |
| | | τ_1 ^{b)} | 48.7(29) |
| | | τ_2 ^{c)} | 61.5(12) |
| | | τ_3 ^{d)} | 2.8(14) |

| Atom | a_s [Å] | b_s [Å] | c_s [Å] |
|---------------------|-----------|-----------|-----------|
| H'(1) ^{e)} | 1.338 | 1.477 | 0.232 |
| H(1) | 2.061 | 0.764 | 1.130 |

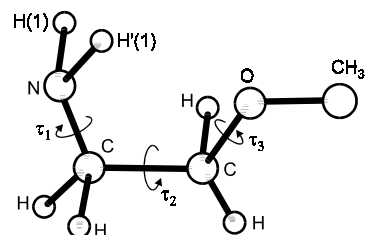
^{a)} Assumed.

^{b)} Dihedral angle C–C–N–H.

^{c)} Dihedral angle O–C–C–N.

^{d)} Dihedral angle C–O–C–C.

^{e)} Primed hydrogen participates in the hydrogen bond.



Caminati, W., Wilson, E.B.: J. Mol. Spectrosc. **81** (1980) 356.