

## Genus *Methanomethylophilus*

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### Etymology

[Me.tha.no.me.thy.lo'phi.lus] N.L. neut. n. *methanum*, methane; N.L. pref. *methylo-*, pertaining to the methyl group; N.L. masc. adj. suff. *-philus*, loving; N.L. masc. n. *Methanomethylophilus*, methane-producing organism loving methyl groups.

### Nomenclatural type

Species *Methanomethylophilus alvi*<sup>T</sup>

### Description

The genus is defined by relative evolutionary divergence (RED) and phylogenomic analysis as a monophyletic group. Strictly anaerobic and chemoheterotrophic cocci. Utilize methanol and mono-, di- and trimethylamines only in combination with H<sub>2</sub> as substrates for methanogenesis.

### Classification

*Archaea* » "Euryarchaeota" » *Thermoplasmata* » *Methanomassiliicoccales* » *Methanomethylophilaceae* » *Methanomethylophilus*

### References

Effective publication: Borrel et al., 2023 [1]

### Registry URL

<https://seqco.de/i:428>

## References

1. Borrel et al. (2023). *Methanomethylophilus alvi* gen. nov., sp. nov., a Novel Hydrogenotrophic Methyl-Reducing Methanogenic Archaea of the Order Methanomassiliicoccales Isolated from the Human Gut and Proposal of the Novel Family Methanomethylophilaceae fam. nov. *Microorganisms*. DOI:10.3390/microorganisms11112794