



N-Methylhydroxylamine hydrochloride PRODUCT DATA SHEET

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| Product Name: | N-Methylhydroxylamine hydrochloride |
| Product Number: | M088 |
| CAS Number: | 4229-44-1 |
| Molecular Formula: | $\text{CH}_5\text{NO} \cdot \text{HCl}$ |
| Molecular Weight: | 83.52 |
| Description: | <p>N-Methylhydroxylamine hydrochloride is a catalyst commonly used in transamidation, and has been investigated for its radical scavenger abilities as a bacterial growth inhibitor.</p> <p>N-Methylhydroxylamine hydrochloride is soluble in water.</p> |
| Mechanism of Action: | N-Methylhydroxylamine hydrochloride targets the ribonucleotide reductase essential to DNA synthesis, stopping bacterial proliferation. |
| References: | <p>Torrents, E., Sahlin, M., Biglino, D., Gräslund, A., & Sjöberg, B.-M. (2005). Efficient growth inhibition of <i>Bacillus anthracis</i> by knocking out the ribonucleotide reductase tyrosyl radical. <i>Proceedings of the National Academy of Sciences of the United States of America</i>, 102(50), 17946–17951. http://doi.org/10.1073/pnas.0506410102</p> |

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