

Global Methylenetetrahydrofolate Reductase Market Growth 2026-2032

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Abstracts

The global Methylenetetrahydrofolate Reductase market size is predicted to grow from US\$ 398 million in 2025 to US\$ 641 million in 2032; it is expected to grow at a CAGR of 7.1% from 2026 to 2032.

Methylenetetrahydrofolate Reductase (MTHFR) is an enzyme that plays a central role in one-carbon metabolism by catalyzing the conversion of 5,10-methylenetetrahydrofolate to 5-methyltetrahydrofolate, the active form of folate required for the remethylation of homocysteine to methionine, thereby supporting DNA synthesis, methylation processes, and cardiovascular health; in terms of supply chain, MTHFR is not traded as a bulk industrial chemical but exists within a life sciences and diagnostics ecosystem where upstream activities involve biochemical research, gene sequencing, and enzyme characterization (using reagents such as folates, cofactors like NADPH, and recombinant expression systems), midstream processes include the development and manufacturing of genetic testing kits, PCR reagents, and clinical diagnostic panels targeting MTHFR gene variants (e.g., C677T, A1298C), and downstream applications span clinical diagnostics laboratories, hospitals, nutrigenomics services, pharmaceutical research, and personalized medicine providers, with key stakeholders including biotech firms, diagnostic kit manufacturers, clinical labs, and healthcare institutions rather than traditional chemical manufacturers. In 2025, global Methylenetetrahydrofolate Reductase output was about 80 tons with 120 tons of capacity, average prices of USD 3,000-10,000 per kg, and gross margins around 37%.

United States market for Methylenetetrahydrofolate Reductase is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Methylenetetrahydrofolate Reductase is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Methylenetetrahydrofolate Reductase is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Methylenetetrahydrofolate Reductase players cover Merck (Germany), Thermo Fisher (USA), Bio-Techne (USA), RayBiotech (USA), Enzo Biochem (USA), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Methylenetetrahydrofolate Reductase Industry Forecast" looks at past sales and reviews total world Methylenetetrahydrofolate Reductase sales in 2025, providing a comprehensive analysis by region and market sector of projected Methylenetetrahydrofolate Reductase sales for 2026 through 2032. With Methylenetetrahydrofolate Reductase sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Methylenetetrahydrofolate Reductase industry.

This Insight Report provides a comprehensive analysis of the global Methylenetetrahydrofolate Reductase landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Methylenetetrahydrofolate Reductase portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Methylenetetrahydrofolate Reductase market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Methylenetetrahydrofolate Reductase and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Methylenetetrahydrofolate Reductase.

This report presents a comprehensive overview, market shares, and growth opportunities of Methylenetetrahydrofolate Reductase market by product type,

application, key manufacturers and key regions and countries.

Segmentation by Type:

C677T Variant

A1298C Variant

Segmentation by Enzyme Activity Level:

>70%

40?70%

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