

**Cyclopentane Market by Function (Blowing Agent & Refrigerant, Solvent & Reagent), Application (Residential Refrigerators, Commercial Refrigerators, Insulated Containers, Insulating Construction Materials, Electrical), and Region - Global Forecast to 2030**

Market Report | 2025-07-18 | 226 pages | MarketsandMarkets

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**Report description:**

The global cyclopentane market is projected to grow from USD 0.39 billion in 2025 to USD 0.52 billion by 2030, at a CAGR of 6.1% during the forecast period. The cyclopentane market is witnessing robust growth, driven by rising demand for eco-friendly blowing agents and increasing environmental regulations phasing out ozone-depleting substances like HCFCs. Its low global warming potential and zero ozone depletion potential make cyclopentane a preferred substitute in insulation and refrigeration applications. Rapid urbanization, expanding cold-chain logistics, and the push for energy-efficient appliances further contribute to its growing adoption. Industries such as construction, refrigeration, and automotive are increasingly relying on cyclopentane-based insulation to meet sustainability targets.

"Based on function, the solvents & reagents segment is expected to account for the second-largest market share during the forecast period."

The solvents & reagents segment is expected to account for the second-largest share of the market in terms of value during the forecast period. This reflects cyclopentane's growing utilization in various chemical processes and industrial applications where its stability, volatility, and low environmental impact make it a suitable choice. Its effectiveness as a solvent and reagent in multiple formulations contributes to its expanding role across different end-use industries, supporting its strong market presence beyond primary applications like blowing agents.

"Based on application, the insulating construction materials segment will account for the second-largest share during the forecast period."

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period."

The insulating construction materials are expected to account for the second-largest share of the cyclopentane market in terms of volume during the forecast period. Rapid urbanization, infrastructure growth, and rising construction activity, especially in emerging economies, are driving the demand for effective insulation solutions. Cyclopentane-based insulation materials are extensively used in residential, commercial, and industrial buildings due to their ability to enhance energy efficiency and help reduce heating and cooling costs. Additionally, the shift toward sustainable building practices and stricter energy efficiency regulations is further boosting the adoption of cyclopentane in construction insulation. Its low environmental impact and superior thermal insulation properties make it a preferred alternative to traditional blowing agents in the building materials sector.

"Europe expected to account for the second-largest share during the forecast period."

The Europe region is expected to account for the second-largest share of the cyclopentane market in terms of value during the forecast period. Europe is expected to maintain a strong position in the cyclopentane market, holding a significant share during the forecast period. The region's focus on energy efficiency, stringent environmental regulations, and commitment to phasing out ozone-depleting substances are key drivers of cyclopentane adoption. Moreover, well-established construction and refrigeration industries, along with the shift toward sustainable insulation materials, continue to support the region's demand for cyclopentane-based products.

Profile break-up of primary participants for the report:

-□By Company Type: Tier 1 - 65%, Tier 2 - 20%, and Tier 3 - 15%

-□By Designation: Directors Level- 25%, Managers Level- 30%, and Others - 45%

-□By Region: North America - 30%, Asia Pacific - 40%, Europe - 20%, Middle East & Africa - 7%, and South America - 3%

Haltermann Carless Group GmbH (Germany), Junyuan Petroleum Group (China), INEOS (UK), Zeon Corporation (Japan), and Puyang Zhongwei Fine Chemical Co., Ltd. (China) are some of the major players operating in the cyclopentane market. These players have adopted expansions to increase their market share and business revenue.

Research Coverage:

The report defines, segments, and projects the cyclopentane market based on function, application, and region. It provides detailed information regarding the major factors influencing the market's growth, such as drivers, restraints, opportunities, and challenges. It strategically profiles cyclopentane manufacturers, comprehensively analyzing their market shares and core competencies, and tracks and analyzes competitive developments, such as product launches, acquisitions, agreements, and others.

Reasons to Buy the Report:

The report is expected to help the market leaders/new entrants by providing them with the closest approximations of revenue numbers of the cyclopentane market and its segments. This report is also expected to help stakeholders obtain an improved understanding of the market's competitive landscape, gain insights to improve the position of their businesses, and make suitable go-to-market strategies. It also enables stakeholders to understand the market's pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

- Analysis of drivers (global phase-out of hydrochlorofluorocarbons to increase demand for cyclopentane, wide use of cyclopentane in solvent and reagent applications), opportunities (increasing use of blowing agents in construction, automotive, and appliance industries, pressing need for cyclopentane in thermal energy storage systems), restraints (high capital investments, volatility in raw material prices), and challenges (flammability of cyclopentane) influencing the growth of the cyclopentane market.

- Product development/innovation: Detailed insights on upcoming technologies and research & development activities in the cyclopentane market.

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- Market Development: Comprehensive information about lucrative markets - the report analyzes the cyclopentane market across varied regions.
- Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the cyclopentane market.
- Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players such as Haltermann Carless Group GmbH (Germany), Junyuan Petroleum Group (China), INEOS (UK), Zeon Corporation (Japan), and Puyang Zhongwei Fine Chemical Co., Ltd. (China) in the cyclopentane market.

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**Cyclopentane Market by Function (Blowing Agent & Refrigerant, Solvent & Reagent),  
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Containers, Insulating Construction Materials, Electrical), and Region - Global  
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