

Cyclopentanone Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Application (Pharmaceuticals, Agriculture, Flavors & Fragrances, Polymers & Resins, Others), By Grade (High-Purity Cyclopentanone, Industrial-Grade Cyclopentanone), By Sales Channel (Direct Sales, Indirect Sales), By Region and Competition, 2019-2029F

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Report description:

Global Cyclopentanone Market was valued at USD 153.06 Million in 2023 and is expected to reach USD 198.99 Million by 2029 with a CAGR of 4.65% during the forecast period. The Global Cyclopentanone Market is experiencing steady growth, driven by its versatile applications across various industries, including chemicals, pharmaceuticals, and agrochemicals. Cyclopentanone is a key intermediate in the production of numerous chemicals such as plasticizers, solvents, and adhesives, making it a crucial component in the manufacturing of products used in automotive, construction, and electronics sectors. The growing demand for specialty chemicals in emerging markets, particularly in Asia-Pacific, is contributing to the expansion of the market. Cyclopentanone's role as a precursor in the synthesis of pharmaceuticals, including anti-inflammatory and anti-cancer drugs, further elevates its market importance. One of the primary factors boosting market growth is the increasing use of cyclopentanone in agrochemical formulations, where it acts as an important intermediate in producing herbicides and pesticides. As the global agricultural sector expands, particularly in regions like North America and Europe, demand for such chemicals rises, propelling the market for cyclopentanone. Cyclopentanone is gaining traction in the production of fuel additives and polymers, aligning with the growing need for sustainable and high-performance materials. However, the market faces challenges, including fluctuating raw material prices and environmental concerns regarding the production process. For instance, BASF has decided to cease the production of adipic acid, cyclododecanone (CDon), and cyclopentanone (CPon) at its Ludwigshafen site. The production plant for CDOn and CPon will be shut down in the first half of 2025, while the remaining adipic acid production will be closed later in 2025. Regulatory pressures around environmental impacts,

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especially from the production of cyclopentanone, are driving manufacturers to seek greener, more sustainable alternatives. Despite these challenges, innovation in production methods, such as bio-based cyclopentanone, is providing opportunities for market growth. As industries continue to rely on cyclopentanone for diverse applications, the global market is expected to grow steadily in the coming years.

Key Market Drivers

Growing Demand from the Pharmaceutical Industry

The growing demand from the pharmaceutical industry is a significant factor propelling the expansion of the Global Cyclopentanone Market. Cyclopentanone is a key intermediate in the synthesis of a variety of pharmaceutical compounds, making it essential for the development of drugs targeting a wide range of medical conditions. Its role in producing cyclopentyl derivatives, which are vital components in the formulation of medications, has further strengthened its demand within the pharmaceutical sector. Cyclopentanone's versatility allows it to be used in the production of active pharmaceutical ingredients (APIs) for several therapeutic areas, including anti-inflammatory, anti-cancer, and anti-viral treatments.

The rising global burden of chronic diseases such as cancer, diabetes, cardiovascular diseases, and autoimmune disorders has spurred the need for innovative drug development, fueling the demand for cyclopentanone. In particular, the increasing incidence of cancer and autoimmune disorders worldwide has led to heightened interest in drugs that incorporate cyclopentanone-based compounds. As new drugs derived from cyclopentanone derivatives enter the market, their applications in various therapeutic areas will continue to drive the growth of this market. Regions such as North America, Europe, and Asia-Pacific, which are home to well-established pharmaceutical industries, are particularly contributing to this demand. Advanced healthcare infrastructure, combined with substantial investments in research and development (R&D), has led to the development of new treatments and the expansion of existing drug portfolios. In emerging markets across Asia-Pacific, the growing focus on improving healthcare systems and the rise in medical research are fueling the demand for pharmaceutical ingredients like cyclopentanone.

As pharmaceutical companies increasingly rely on cyclopentanone for the synthesis of next-generation drugs, the demand for this compound is expected to escalate. The ongoing trend of innovation in drug formulations and the discovery of new cyclopentanone-based therapeutic applications will further cement its role in the pharmaceutical industry, driving sustained market growth in the coming years.

Increasing Usage in Agrochemical Formulations

Cyclopentanone's increasing usage in agrochemical formulations is a key factor driving the global market for this compound. As a crucial intermediate, cyclopentanone is involved in the production of various agrochemicals, including herbicides, fungicides, and pesticides, all of which are essential for modern agricultural practices. With the expanding global agricultural industry, particularly in emerging economies such as China, India, and Brazil, the demand for effective crop protection chemicals has surged. These chemicals play a critical role in safeguarding crops from pests, diseases, and weeds, thereby enhancing agricultural productivity and contributing to food security.

Cyclopentanone's role in the synthesis of agrochemical compounds that improve crop yields is integral to meeting the increasing demand for food, driven by global population growth. As the need for higher efficiency in crop protection continues to rise, cyclopentanone-based chemicals have become increasingly important in formulating solutions that can protect crops more effectively, with minimal environmental impact. The growing importance of ensuring food security in regions with rapidly expanding populations is creating opportunities for agrochemical solutions based on cyclopentanone, which help boost crop yields and improve farming productivity.

In addition to traditional agricultural practices, there is a marked shift toward more sustainable farming methods, which has further expanded the application of cyclopentanone in agrochemicals. As organic and environmentally friendly agriculture becomes more prominent, there is an increasing demand for eco-friendly agrochemical solutions. Cyclopentanone derivatives, used in the formulation of such products, help develop pesticides and herbicides that are less harmful to the environment while still providing the desired efficacy. This trend toward sustainability has spurred innovation in the agrochemical sector, where cyclopentanone-based solutions are playing an essential role in developing greener alternatives. As these trends continue to evolve, the global cyclopentanone market is poised to benefit from increased demand in both conventional and sustainable agriculture, supporting the continued growth of the agrochemical sector..

Growth of the Automotive and Electronics Industries

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The growth of the automotive and electronics industries is a significant driver for the global demand for cyclopentanone, as it is used in the production of various essential chemicals and materials, such as coatings, adhesives, and plasticizers. In the automotive sector, cyclopentanone-based compounds are increasingly utilized in the manufacturing of high-performance materials required for vehicle production. The global shift toward electric vehicles (EVs) has been a catalyst for this demand. As EV production grows, there is an increasing need for advanced materials that offer superior durability, weight reduction, and energy efficiency. Cyclopentanone derivatives are essential in the formulation of coatings and adhesives used in EV components, as well as in plasticizers that help improve the performance of various automotive parts, including dashboards, electrical connectors, and battery components.

The automotive industry's transition to more sustainable production practices further amplifies the demand for cyclopentanone-based solutions. EV manufacturers are focused on reducing the environmental impact of their vehicles and their production processes. Cyclopentanone is valued for its ability to facilitate the development of eco-friendly materials and coatings that meet stringent environmental standards, such as those related to low toxicity, biodegradability, and recyclability. As automotive companies increasingly prioritize sustainability in response to regulatory pressure and consumer demand, cyclopentanone is expected to play an even more pivotal role in the development of next-generation automotive materials. In the electronics industry, cyclopentanone serves as a crucial solvent in various manufacturing processes, including the production of semiconductors and circuit boards. As the electronics sector continues to expand, particularly in emerging markets, the demand for cyclopentanone is expected to rise. This trend is driven by the increasing consumption of electronic devices, such as smartphones, computers, and consumer electronics, which require precision manufacturing and high-performance materials. As both the automotive and electronics industries continue to evolve with an increasing focus on sustainable manufacturing practices, the demand for cyclopentanone and its derivatives is set to grow significantly in the coming years.

Key Market Challenges

Fluctuating Raw Material Prices

One of the significant challenges facing the Global Cyclopentanone Market is the volatility in raw material prices, particularly those derived from petrochemicals. Cyclopentanone is primarily produced through the catalytic hydrogenation of furfural, which is derived from agricultural byproducts or petrochemical feedstocks. The price fluctuations of these raw materials, driven by geopolitical factors, supply chain disruptions, and changing crude oil prices, can directly impact the cost of cyclopentanone production. When raw material prices increase, manufacturers are forced to adjust their pricing strategies or absorb the additional costs, which can reduce profit margins. The price instability can deter potential investors and disrupt the production schedules of companies that rely heavily on cyclopentanone as an intermediate. As global industries, particularly the automotive, pharmaceutical, and agricultural sectors, rely heavily on cyclopentanone, these pricing challenges pose a significant threat to the stability and growth of the market. Manufacturers are forced to seek alternative, more stable sources for their feedstocks or innovate production methods to mitigate the impact of volatile pricing. However, this process requires significant investment in technology and research, further increasing the cost burden on producers. The unpredictability of raw material prices continues to be a major concern for stakeholders in the cyclopentanone value chain.

Competition from Alternative Chemicals

The Global Cyclopentanone Market faces competition from alternative chemicals that can fulfill similar functions in the production of plastics, pharmaceuticals, agrochemicals, and other sectors. As industries seek cost-effective and more efficient solutions, alternative chemicals that offer similar or superior performance to cyclopentanone are emerging. For example, other cyclic ketones or synthetic intermediates can sometimes substitute for cyclopentanone in specific applications, such as solvents, plasticizers, or in the production of drugs and agrochemicals. These alternatives may offer lower production costs, improved environmental profiles, or better chemical properties, making them attractive options for manufacturers looking to optimize their processes. The competition from these alternatives can lead to reduced demand for cyclopentanone in some segments of the market, particularly if these substitutes are available at a lower price point or offer performance advantages. This competition is particularly fierce in industries like agrochemicals and specialty chemicals, where companies are constantly seeking more sustainable and cost-efficient solutions to meet growing demand. For cyclopentanone manufacturers, this means not only competing on price but also on technological innovation and differentiation. Failure to keep pace with emerging alternatives could limit cyclopentanone's market share and hinder growth prospects.

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Key Market Trends

Advancements in Research and Development

Ongoing advancements in research and development (R&D) are playing a critical role in driving the growth of the global cyclopentanone market, opening up new opportunities across a range of industries. Continuous R&D efforts are expanding the applications of cyclopentanone, particularly in pharmaceuticals, agriculture, and material science, which is fueling its demand. Researchers are exploring novel ways to utilize cyclopentanone and its derivatives, unlocking potential in areas that were previously unexplored, thus creating new growth avenues for the market. One of the key areas where R&D is making significant strides is in the pharmaceutical sector. Scientists are investigating cyclopentanone-based compounds for use in drug delivery systems, which could enhance the efficacy and targeting of various therapeutic drugs. Cyclopentanone's chemical properties make it an attractive candidate for formulating controlled-release medications and improving the bioavailability of drugs. There is growing excitement about its potential in the development of new therapeutic drugs, especially for complex diseases such as cancer and autoimmune disorders. As these innovations unfold, cyclopentanone's role in the pharmaceutical industry is expected to expand significantly, driving its demand. For instance, In 2023, significant progress was made in research on catalysts for the aldol condensation of furfural and cyclopentanone, underscoring the reaction's importance in producing high-quality biofuels. The study demonstrated that both acidic Al₂O₃ and acid-base bifunctional Na-HAP catalysts delivered superior performance, with microwave radiation further accelerating reaction rates. The findings highlighted the significance of acid-base synergism and emphasized the need for continued development of solid acid-base bifunctional catalysts, driving innovation in the Global Cyclopentanone Market.

In addition to pharmaceutical applications, R&D in cyclopentanone-based technologies is also enhancing its use in agriculture. Research focused on developing more effective agrochemicals, including pesticides, herbicides, and fungicides, is leading to new formulations that are more environmentally friendly and efficient. Cyclopentanone's role in creating these greener chemicals is gaining importance as sustainable farming practices become a global priority. Advancements in the synthesis of cyclopentanone itself are contributing to its broader adoption. New methods of synthesizing cyclopentanone more efficiently and cost-effectively are making its production more scalable and economically viable. These improvements are likely to drive down production costs, making cyclopentanone a more attractive option across various sectors. As R&D efforts continue to expand, cyclopentanone is poised to play an increasingly vital role in multiple industries, further boosting its market growth.

Rising Demand for Specialty Chemicals

The rising demand for specialty chemicals is a significant driver of the global cyclopentanone market, as these chemicals play a crucial role in numerous industrial applications where high performance and precision are essential. Specialty chemicals are used across a wide range of sectors, including automotive coatings, adhesives, and electronics, each requiring high-quality intermediates like cyclopentanone to meet the stringent demands of modern manufacturing processes. As industries continue to innovate and develop more specialized products, the need for cyclopentanone as a key raw material in the production of these high-performance chemicals is expected to grow substantially. Cyclopentanone's versatility as a solvent, plasticizer, and intermediate compound makes it indispensable in the formulation of specialty chemicals. In the automotive industry, for example, cyclopentanone is used in the production of coatings and adhesives that are essential for manufacturing durable and high-performance vehicle components. These coatings often need to withstand extreme environmental conditions, such as UV radiation, heat, and chemicals, and cyclopentanone plays a critical role in ensuring the stability and performance of these coatings. Similarly, cyclopentanone is used in adhesives that provide strong bonds and high adhesion properties, which are particularly important in the automotive and construction industries.

In the electronics sector, cyclopentanone is utilized as a solvent in the production of components like semiconductors and circuit boards. The electronics industry is continuously evolving with the demand for smaller, faster, and more efficient devices, and cyclopentanone's ability to help formulate high-quality, precise components is contributing to its growing importance in this sector. As the global demand for specialty chemicals rises, especially in regions like Asia-Pacific and North America, where industrialization and innovation are driving growth, the cyclopentanone market stands to benefit. Industries in these regions are increasingly adopting advanced technologies that require the use of high-performance chemicals, thus further boosting the demand for cyclopentanone as a critical ingredient in the production of specialty chemicals.

Segmental Insights

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Grade Insights

Based on the Grade, High-Purity Cyclopentanone is currently dominating the Global Cyclopentanone Market, primarily due to its extensive use in high-precision applications, particularly in the pharmaceutical and chemical industries. This grade of cyclopentanone is characterized by a high level of purity, typically above 99%, making it suitable for sensitive processes where even trace impurities can impact the quality and efficacy of the end products. In the pharmaceutical industry, high-purity cyclopentanone is crucial as an intermediate in the synthesis of active pharmaceutical ingredients (APIs), including those used in the development of anti-inflammatory, anticancer, and antiviral medications. The growing global demand for innovative medicines, driven by the rising incidence of chronic diseases and the focus on research and development (R&D) in drug discovery, has propelled the need for high-purity cyclopentanone.

High-purity cyclopentanone is used in the production of specialty chemicals, including solvents, which require superior quality and consistency for optimal performance. The automotive and electronics industries also rely on this grade of cyclopentanone for the manufacturing of coatings, adhesives, and electronic components, where quality control is paramount.

Application Insights

Based on the Application, The Pharmaceuticals segment is the dominant in the Global Cyclopentanone Market, driven by the increasing demand for high-quality intermediates used in the synthesis of active pharmaceutical ingredients (APIs).

Cyclopentanone plays a critical role in the production of various pharmaceuticals, particularly those used in the treatment of complex conditions such as cancer, neurological disorders, and inflammatory diseases. It serves as an important building block in the synthesis of drugs, including those used in anticancer therapies, anti-inflammatory drugs, and treatments for central nervous system disorders. The growing global focus on healthcare, coupled with the rising prevalence of chronic diseases, has spurred innovation and R&D in drug development, leading to higher demand for cyclopentanone in pharmaceutical manufacturing. The increasing regulatory requirements for drug quality and safety further emphasize the need for high-purity cyclopentanone, ensuring the production of high-quality medications.

The global pharmaceutical industry's shift toward precision medicine, which often requires specialized, high-quality compounds, has also contributed to the dominance of cyclopentanone in this sector. As new drug formulations and therapies emerge, the demand for high-purity intermediates like cyclopentanone will continue to rise. Advancements in drug delivery systems and biotechnology, which often rely on cyclopentanone in their manufacturing processes, further reinforce the segment's leading position.

Regional Insights

The Asia Pacific region is dominating the Global Cyclopentanone Market, driven by a combination of factors including rapid industrialization, a growing pharmaceutical sector, and increasing demand for specialty chemicals. The region has become a manufacturing hub for many industries, which has significantly boosted the demand for chemicals like cyclopentanone. In the pharmaceutical industry, Asia Pacific plays a critical role in the production of generic drugs and active pharmaceutical ingredients (APIs), where cyclopentanone is used as an essential intermediate. The rising healthcare needs, particularly in countries like China and India, due to their large and aging populations, are contributing to the growing demand for high-quality pharmaceutical products, including those that require cyclopentanone in their production processes. Asia Pacific is home to several leading global pharmaceutical companies and emerging biotech firms, further driving the consumption of cyclopentanone.

The region's rapidly expanding agrochemical industry also plays a key role in the growth of the cyclopentanone market.

Cyclopentanone is used in the formulation of various agrochemicals, including pesticides and herbicides, which are in high demand due to the increasing need to enhance crop yields and improve agricultural productivity.

Asia Pacific's strong manufacturing base, particularly in countries like Japan, South Korea, and China, where the production of polymers, resins, and specialty chemicals is significant, contributes to the dominant position of the region. The availability of cost-effective labor and raw materials, coupled with government incentives for industrial growth, further supports the expansion of the cyclopentanone market in this region.

Key Market Players

☐☐ Caffaro Industrie SPA

☐☐ Zhejiang NHU Co., Ltd.

☐☐ UNSEI CHEMICAL CO., LTD.

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- Matrix Fine Chemicals GmbH
- Zeon Corporation
- SHANGHAI PEARLK CHEMICAL CO., LTD
- Solvay S.A.
- Freesia Chemicals
- Kanto Chemical Co., Inc.
- Tokyo Chemical Industry Co., Ltd.
-

Report Scope:

In this report, the Global Cyclopentanone Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

□□ Cyclopentanone Market, By Application:

- o Pharmaceuticals
- o Agriculture
- o Flavors & Fragrances
- o Polymers & Resins
- o Others

□□ Cyclopentanone Market, By Grade:

- o High-Purity Cyclopentanone
- o Industrial-Grade Cyclopentanone

□□ Cyclopentanone Market, By Sales Channel:

- o Direct Sales
- o Indirect Sales

□□ Cyclopentanone Market, By Region:

- o North America
 - United States
 - Canada
 - Mexico
- o Europe
 - France
 - United Kingdom
 - Italy
 - Germany
 - Spain
- o Asia-Pacific
 - China
 - India
 - Japan
 - Australia
 - South Korea
- o South America
 - Brazil
 - Argentina
 - Colombia
- o Middle East & Africa
 - South Africa
 - Saudi Arabia

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□ UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Cyclopentanone Market.

Available Customizations:

Global Cyclopentanone Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

□□ Detailed analysis and profiling of additional market players (up to five).

Table of Contents:

1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations
2. Research Methodology
 - 2.1. Objective of the Study
 - 2.2. Baseline Methodology
 - 2.3. Key Industry Partners
 - 2.4. Major Association and Secondary Sources
 - 2.5. Forecasting Methodology
 - 2.6. Data Triangulation & Validation
 - 2.7. Assumptions and Limitations
3. Executive Summary
 - 3.1. Overview of the Market
 - 3.2. Overview of Key Market Segmentations
 - 3.3. Overview of Key Market Players
 - 3.4. Overview of Key Regions/Countries
 - 3.5. Overview of Market Drivers, Challenges, and Trends
4. Voice of Customer
5. Global Cyclopentanone Market Outlook
 - 5.1. Market Size & Forecast
 - 5.1.1. By Value
 - 5.2. Market Share & Forecast
 - 5.2.1. By Application (Pharmaceuticals, Agriculture, Flavors & Fragrances, Polymers & Resins, Others)
 - 5.2.2. By Grade (High-Purity Cyclopentanone, Industrial-Grade Cyclopentanone)
 - 5.2.3. By Sales Channel (Direct Sales, Indirect Sales)
 - 5.2.4. By Company (2023)
 - 5.2.5. By Region
 - 5.3. Market Map
6. North America Cyclopentanone Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value
 - 6.2. Market Share & Forecast
 - 6.2.1. By Application
 - 6.2.2. By Grade

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- 6.2.3. By Sales Channel
- 6.2.4. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Cyclopentanone Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Application
 - 6.3.1.2.2. By Grade
 - 6.3.1.2.3. By Sales Channel
 - 6.3.2. Mexico Cyclopentanone Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Application
 - 6.3.2.2.2. By Grade
 - 6.3.2.2.3. By Sales Channel
 - 6.3.3. Canada Cyclopentanone Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Application
 - 6.3.3.2.2. By Grade
 - 6.3.3.2.3. By Sales Channel
- 7. Europe Cyclopentanone Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value
 - 7.2. Market Share & Forecast
 - 7.2.1. By Application
 - 7.2.2. By Grade
 - 7.2.3. By Sales Channel
 - 7.2.4. By Country
 - 7.3. Europe: Country Analysis
 - 7.3.1. France Cyclopentanone Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Application
 - 7.3.1.2.2. By Grade
 - 7.3.1.2.3. By Sales Channel
 - 7.3.2. Germany Cyclopentanone Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Application
 - 7.3.2.2.2. By Grade
 - 7.3.2.2.3. By Sales Channel

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7.3.3. United Kingdom Cyclopentanone Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Application

7.3.3.2.2. By Grade

7.3.3.2.3. By Sales Channel

7.3.4. Italy Cyclopentanone Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

7.3.4.2.1. By Application

7.3.4.2.2. By Grade

7.3.4.2.3. By Sales Channel

7.3.5. Spain Cyclopentanone Market Outlook

7.3.5.1. Market Size & Forecast

7.3.5.1.1. By Value

7.3.5.2. Market Share & Forecast

7.3.5.2.1. By Application

7.3.5.2.2. By Grade

7.3.5.2.3. By Sales Channel

8. Asia-Pacific Cyclopentanone Market Outlook

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Application

8.2.2. By Grade

8.2.3. By Sales Channel

8.2.4. By Country

8.3. Asia-Pacific: Country Analysis

8.3.1. China Cyclopentanone Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Application

8.3.1.2.2. By Grade

8.3.1.2.3. By Sales Channel

8.3.2. India Cyclopentanone Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Application

8.3.2.2.2. By Grade

8.3.2.2.3. By Sales Channel

8.3.3. South Korea Cyclopentanone Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

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- 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Application
 - 8.3.3.2.2. By Grade
 - 8.3.3.2.3. By Sales Channel
- 8.3.4. Japan Cyclopentanone Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Application
 - 8.3.4.2.2. By Grade
 - 8.3.4.2.3. By Sales Channel
 - 8.3.5. Australia Cyclopentanone Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Application
 - 8.3.5.2.2. By Grade
 - 8.3.5.2.3. By Sales Channel
 - 9. South America Cyclopentanone Market Outlook
 - 9.1. Market Size & Forecast
 - 9.1.1. By Value
 - 9.2. Market Share & Forecast
 - 9.2.1. By Application
 - 9.2.2. By Grade
 - 9.2.3. By Sales Channel
 - 9.2.4. By Country
 - 9.3. South America: Country Analysis
 - 9.3.1. Brazil Cyclopentanone Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Application
 - 9.3.1.2.2. By Grade
 - 9.3.1.2.3. By Sales Channel
 - 9.3.2. Argentina Cyclopentanone Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Application
 - 9.3.2.2.2. By Grade
 - 9.3.2.2.3. By Sales Channel
 - 9.3.3. Colombia Cyclopentanone Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Application
 - 9.3.3.2.2. By Grade

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- 9.3.3.2.3. By Sales Channel
- 10. Middle East and Africa Cyclopentanone Market Outlook
 - 10.1. Market Size & Forecast
 - 10.1.1. By Value
 - 10.2. Market Share & Forecast
 - 10.2.1. By Application
 - 10.2.2. By Grade
 - 10.2.3. By Sales Channel
 - 10.2.4. By Country
 - 10.3. MEA: Country Analysis
 - 10.3.1. South Africa Cyclopentanone Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Application
 - 10.3.1.2.2. By Grade
 - 10.3.1.2.3. By Sales Channel
 - 10.3.2. Saudi Arabia Cyclopentanone Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Application
 - 10.3.2.2.2. By Grade
 - 10.3.2.2.3. By Sales Channel
 - 10.3.3. UAE Cyclopentanone Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Application
 - 10.3.3.2.2. By Grade
 - 10.3.3.2.3. By Sales Channel
- 11. Market Dynamics
 - 11.1. Drivers
 - 11.2. Challenges
- 12. Market Trends & Developments
 - 12.1. Merger & Acquisition (If Any)
 - 12.2. Product Launches (If Any)
 - 12.3. Recent Developments
- 13. Porters Five Forces Analysis
 - 13.1. Competition in the Industry
 - 13.2. Potential of New Entrants
 - 13.3. Power of Suppliers
 - 13.4. Power of Customers
 - 13.5. Threat of Substitute Products
- 14. Competitive Landscape
 - 14.1. Caffaro Industrie SPA
 - 14.1.1. Business Overview

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- 14.1.2. Company Snapshot
- 14.1.3. Products & Services
- 14.1.4. Financials (As Reported)
- 14.1.5. Recent Developments
- 14.1.6. Key Personnel Details
- 14.1.7. SWOT Analysis
- 14.2. Zhejiang NHU Co., Ltd.
- 14.3. JUNSEI CHEMICAL CO., LTD.
- 14.4. Matrix Fine Chemicals GmbH
- 14.5. Zeon Corporation
- 14.6. SHANGHAI PEARLK CHEMICAL CO., LTD
- 14.7. Solvay S.A.
- 14.8. Freesia Chemicals
- 14.9. Kanto Chemical Co., Inc.
- 14.10. Tokyo Chemical Industry Co., Ltd.
- 15. Strategic Recommendations
- 16. About Us & Disclaimer

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