

India Naphthalene Derivatives Market By Derivative (Sulphonated Naphthalene Formaldehyde (SNF), Phthalic Anhydride, Alkyl Naphthalene Sulphonates Salts (ANS), Naphthalene Sulphonic Acid, Others), By End User (Textiles, Construction, Pharmaceutical, Paints & Coatings, Pulp & Paper, Others), By Region, Competition, Forecast and Opportunities, 2020-2030F

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Abstracts

India Naphthalene Derivatives Market was reached reach USD 115.56 million by 2024 and is anticipated to reach USD 140.47 million with a CAGR of 3.42% during the forecast period.

Naphthalene derivatives, which are organic compounds derived from naphthalene, a polycyclic aromatic hydrocarbon, have gained significant importance due to their diverse applications across multiple industries such as construction, textiles, agriculture, and pharmaceuticals. In textile industry, Based on the IBEF data, as of December 2024, the Indian Textile and Apparel Industry is valued at more than US\$ 100 billion, employing over 45 million people, and contributing to 14% of the country's industrial production. In the construction industry, naphthalene derivatives play a crucial role as superplasticizers in concrete and cement mixtures. These derivatives enhance the workability and strength of the materials, thereby improving the overall quality of construction projects. With the construction sector in India experiencing rapid growth, the demand for naphthalene derivatives is expected to soar, presenting a substantial growth opportunity for the market.

Technological advancements have further propelled the naphthalene derivatives market in India. These advancements have resulted in the development of innovative

production methods and improved product quality, expanding the range of applications for naphthalene derivatives. As a result, the market is witnessing continuous growth and evolution, creating new avenues for market players. However, it is important to acknowledge the sustainability challenges associated with naphthalene production and its derivatives. Environmental concerns have become a significant factor in shaping the market dynamics. This presents a unique opportunity for industry stakeholders to focus on innovation and develop eco-friendly production methods, ensuring a sustainable future for the naphthalene derivatives market.

Thus, the India naphthalene derivatives market is poised for substantial growth, driven by the escalating construction activities, a flourishing textiles industry, and continuous technological advancements. For instance, In 2021, I G Petrochemicals Ltd. (IGPL), a leading producer of Phthalic Anhydride (PAN), began ramping up its production to address the demand-supply gap by planning a brownfield expansion of its Phthalic Anhydride facility in FY24. The IGPL board approved the brownfield expansion, which will increase the PAN capacity by 53,000 MTPA, with a total project cost of ₹345 crore. In December 2020, IGPL commissioned the 53,000 MTPA PAN capacity, while the commercial production of its new downstream product, Diethyl Phthalate (DEP) — an advanced plasticizer — began at its Taloja, Maharashtra facility in November 2021, with a capacity of 8,400 MTPA. While sustainability concerns pose challenges, they also serve as catalysts for innovation within the sector. With ample opportunities for stakeholders, the future of the India naphthalene derivatives market looks promising and dynamic.

Key Market Drivers

Growing Demand of Naphthalene Derivatives in Pharmaceutical Industry

Naphthalene derivatives, organic compounds derived from naphthalene, a polycyclic aromatic hydrocarbon, play a crucial role as intermediates in the synthesis of various compounds used in the pharmaceutical industry. With notable applications in the production of anti-inflammatory drugs, naphthalene derivatives such as naproxen and nabumetone exhibit their efficacy. These derivatives find utility in the manufacturing of antiseptics, synthetic resins, and dyes.

The Indian pharmaceutical sector, experiencing rapid growth, is driven by factors like increasing healthcare expenditure, a growing middle-class population, and rising disease prevalence. This surge in pharmaceutical activities has led to a substantial demand for naphthalene derivatives in the market. Technological advancements and

extensive research and development activities have further contributed to the increased usage of naphthalene derivatives in the pharmaceutical industry. This includes the development of new methods of drug synthesis and formulation, expanding the scope of their applications.

Hence, the demand for naphthalene derivatives in the pharmaceutical industry serves as a significant driver for the Indian naphthalene derivatives market. As the pharmaceutical sector continues to expand and innovate, the utilization of naphthalene derivatives is expected to witness a further increase, thereby propelling the growth of the market in the foreseeable future.

Growing Demand of Naphthalene Derivatives in Construction Industry

In the construction industry, naphthalene derivatives play a vital role due to their unique properties. These derivatives, known for their odorless nature and low volatility, are extensively used as superplasticizers in concrete and cement mixtures. By enhancing the workability and strength of these materials, naphthalene derivatives contribute to the overall quality and durability of construction projects.

As the construction sector in India experiences rapid expansion, driven by urbanization and infrastructural development, the demand for naphthalene derivatives has witnessed a corresponding surge. This increased demand can be attributed to the growing need for high-performance construction materials that can withstand the test of time. Naphthalene derivatives, with their remarkable characteristics, have emerged as a preferred choice for achieving superior concrete performance.

These led to rise in demand for naphthalene derivatives in the construction industry serves as a significant driver of the Indian naphthalene derivatives market. As the construction sector continues to expand and evolve, the use of these derivatives is expected to further increase, propelling the market growth to new heights. With their indispensable role in enhancing concrete properties, naphthalene derivatives are poised to shape the future of the construction industry in India and beyond.

Key Market Challenges

Variability in Price and Availability of Raw Materials

Naphthalene derivatives, which are organic compounds derived from naphthalene, a polycyclic aromatic hydrocarbon, play a crucial role in various industries. The production

process of these derivatives heavily relies on the availability and cost of raw materials, particularly naphthalene itself. However, the market for naphthalene derivatives is susceptible to fluctuations in energy prices and overcapacity, especially in China.

The uncertainty surrounding raw material prices and their availability can lead to unstable production costs. Consequently, this instability can have a direct impact on the market prices of naphthalene derivatives, making it challenging for businesses to plan their investments effectively. The volatile nature of the market can also deter potential investors, hindering the overall growth of the naphthalene derivatives industry.

Any disruption in the supply of raw materials can result in production delays, further exacerbating the challenges faced by manufacturers in meeting market demand. This volatility poses significant obstacles for the naphthalene derivatives industry, requiring careful strategies to mitigate risks and ensure consistent supply. While the Indian naphthalene derivatives market shows great potential for growth, it is important to address the variability in the price and availability of raw materials. By implementing strategic planning, innovative production methods, and sustainable practices, businesses can overcome this hurdle and pave the way for continued growth and prosperity in the market.

Key Market Trends

Surge in Technological Advancements

Technological advancements are playing a pivotal role in shaping the naphthalene derivatives market in India. These innovations are not only driving improvements in the production process, enhancing efficiency, and reducing environmental impact, but they are also revolutionizing the industry in various ways.

For instance, recent advancements have led to the development of new and more cost-effective methods for the synthesis of naphthalene derivatives. These methods not only ensure a more sustainable production process but also contribute to the overall reduction of waste and emissions. These technological innovations have enabled better quality control measures, ensuring that the produced derivatives meet the highest standards of purity and effectiveness.

These advancements have also resulted in increased yield in the production process. This means that manufacturers can now produce larger quantities of naphthalene derivatives, meeting the growing demand from various end-user industries. The

construction sector, for example, relies on these derivatives for the production of asphalt and other materials. Similarly, pharmaceutical companies use them in the synthesis of certain drugs, while agrochemical and paint industries utilize them for their specific applications.

Therefore, the surge in technological advancements is undoubtedly a defining trend in the Indian naphthalene derivatives market. As these advancements continue to drive improvements and offer more sustainable solutions, they are expected to further fuel the growth of the market in the coming years, meeting the increasing demand and contributing to the overall development of various industries.

Adoption of Environmentally Sustainable Production Processes

A key trend in the India Naphthalene Derivatives Market is the increasing adoption of environmentally sustainable production processes. With growing awareness of environmental concerns and stricter regulatory frameworks, manufacturers are focusing on reducing the ecological footprint of their operations. This includes the adoption of green chemistry principles, waste minimization techniques, and energy-efficient technologies. Companies are also exploring bio-based alternatives and renewable raw materials to produce naphthalene derivatives, aiming to meet the rising demand for eco-friendly products across industries such as construction, textiles, and agriculture.

There is a shift towards the development of low-emission and biodegradable products, particularly in the construction and agrochemical sectors, which are significant consumers of naphthalene derivatives. This trend aligns with India's increasing emphasis on sustainable industrial growth and adherence to international environmental standards.

The move towards sustainable practices is not only helping manufacturers address regulatory compliance but also enhancing their competitiveness in domestic and international markets. As global customers increasingly prefer environmentally responsible suppliers, Indian manufacturers adopting these practices are better positioned to secure long-term growth and market share. This trend is expected to drive innovation and investment in research and development, further transforming the India Naphthalene Derivatives Market into a more sustainable and future-ready industry.

Segmental Insights

Derivative Insights

Based on the category of derivative, the sulphonated naphthalene formaldehyde (SNF) segment emerged as the dominant player in the Indian market for naphthalene derivatives in 2024. One of the primary reasons for SNF's dominance in the construction industry is its high demand. SNF serves as a superplasticizer, playing a crucial role in enhancing the workability and strength of concrete and cement mixtures. Its exceptional properties make it indispensable for construction projects, ensuring optimal performance and durability.

Considering the current economic landscape, India stands as the second fastest-growing economy. With the country witnessing a substantial boom in construction activities, the demand for SNF has soared to meet the industry's requirements. This surge in demand further highlights the invaluable role that SNF plays in shaping and supporting the construction sector's growth and development.

Regional Insights

West India emerged as the dominant player in the India Naphthalene Derivatives Market in 2024, holding the largest market share in terms of value. West India, comprising states like Maharashtra and Gujarat, is known for its strong industrial base. These states have gained recognition for their thriving chemical industries, which play a crucial role in the production of various naphthalene derivatives. These derivatives, widely used in sectors such as pharmaceuticals, textiles, and agrochemicals, contribute significantly to the region's economic growth. For instance, In June 2021, Thirumalai Chemicals had commissioned its Phthalic Anhydride plant at Dahej, Gujarat, with a capacity of 24,000 TPA and a total investment of ₹135 crores, the plant primarily catered to customers in Western India, and the company had initiated plans to expand capacity and diversify product offerings at the site.

The presence of these industries is advantageous as it ensures a steady supply of raw materials, availability of skilled labor, and well-established supply chains.

The region enjoys the benefits of robust infrastructure, including a well-connected network of roads, ports, and railways. This excellent connectivity facilitates the seamless transportation of raw materials and finished products, ensuring efficiency and cost-effectiveness for businesses operating in the region. The strategic proximity to major ports further enhances the region's competitive advantage, enabling easier access to global markets and promoting export-oriented activities. This, in turn, contributes to the overall dominance of West India in the market.

Apart from its industrial prowess, West India is also witnessing rapid urbanization and a significant upswing in construction activities. Naphthalene derivatives, such as superplasticizers used in concrete, are in high demand in the construction industry. With the region's construction sector booming, the demand for these compounds has surged, providing additional impetus to the growth of the chemical industry in West India. This trend further solidifies the region's position as a key player in the market, attracting investment and fostering economic development.

Key Market Players

BASF India Ltd.

Sika India Pvt. Ltd.

CICO Technologies Limited

Choksey Chemicals Pvt. Ltd.

Chembond Chemicals Limited

Report Scope:

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

India Naphthalene Derivatives Market, By Derivative:

Sulphonated Naphthalene Formaldehyde (SNF)

Phthalic Anhydride

Alkyl Naphthalene Sulphonates Salts (ANS)

Naphthalene Sulphonic Acid

Others

India Naphthalene Derivatives Market, By End User:

Textiles

Construction

Pharmaceutical

Paints & Coatings

Pulp & Paper

Others

India Naphthalene Derivatives Market, By Region:

North India

East India

West India

South India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Naphthalene Derivatives Market.

Available Customizations:

India Naphthalene Derivatives 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).

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