

India Isopropyl Alcohol (IPA) Market By Application (Process and Preparation Solvent, Cleaning and Drying Agent, Coating and Dye Solvent, Intermediate, Other Applications), By End User Industry (Cosmetic and Personal Care, Pharmaceutical, Electronics, Paints and Coatings, Chemical, Other), By Region, Competition, Forecast and Opportunities, 2020-2030F

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Abstracts

India Isopropyl Alcohol (IPA) Market achieved a total market volume of 67.34 thousand Metric Tonnes in 2024 and is expected to reach USD 79.71 thousand metric tonnes with a projected Compound Annual Growth Rate (CAGR) of 2.81% during the forecast period. India's Isopropyl Alcohol (IPA) market is currently experiencing substantial growth, reflecting the country's increasing influence in the global chemical and pharmaceutical industry. IPA, a critical chemical compound with diverse applications, plays a pivotal role in various sectors, including pharmaceuticals, chemicals, and sanitizers.

The IPA market in India has undergone significant transformation over the years. Historically, it primarily served as a solvent in the chemicals and pharmaceuticals industry. However, with India's industrial growth and globalization, the market's landscape has evolved. Today, India not only consumes IPA but also produces it on a substantial scale, solidifying its position in the global chemical industry. The Indian IPA market has grown to become a significant contributor to the nation's chemical and pharmaceutical industry. Major players in this market include Reliance Industries, Deepak Fertilisers and Petrochemicals Corporation Limited, and Gujarat Narmada Valley Fertilizers & Chemicals Limited, actively shaping market dynamics. Reliance Industries, in particular, is a key player with a substantial presence in the IPA market.

The versatility of IPA is a pivotal driver of its demand. It serves as a crucial solvent in the pharmaceutical industry, facilitating the formulation of various medications. IPA is used in the production of sanitizers and disinfectants, supporting industries like healthcare and personal care. According to data from IBEF, India has historically been a dominant player in the pharmaceutical sector, benefiting from a low manufacturing cost (30%–35% lower than in the US and Europe), cost-effective research and development (approximately 87% less than in developed markets), and an abundant supply of skilled labor at competitive wages.

Several factors contribute to the escalating demand for IPA in India. The pharmaceutical industry's growth fuels the need for IPA as a solvent in drug formulation. The heightened awareness of hygiene and the demand for sanitizers and disinfectants have significantly increased IPA's usage in the personal care and healthcare sectors.

While the IPA market in India displays immense potential, it also faces notable challenges. Price volatility of raw materials, environmental regulations, and the need for sustainability are key challenges. The price fluctuations of raw materials, primarily propylene, can impact production costs. Compliance with stringent environmental regulations and a growing emphasis on eco-friendly practices are pushing industry to adopt cleaner production methods.

Key Market Drivers

Growing Demand for Pharmaceuticals Products Propels the Indian Isopropyl Alcohol (IPA) Market Growth

The Indian Isopropyl Alcohol (IPA) market is experiencing substantial growth, primarily driven by the growing demand for IPA in the pharmaceutical industry. IPA, a versatile chemical compound, has found extensive use in pharmaceutical manufacturing, where it serves various critical functions. The increasing need for IPA in pharmaceutical applications is a key factor propelling the growth of the IPA market in India. According to IBEF data, India boasts the largest number of USFDA-compliant pharmaceutical plants outside the United States and more than 2,000 WHO-GMP certified facilities. These facilities cater to demand from over 150 countries globally, with a total of more than 10,500 manufacturing sites.

One of the primary drivers of this growth is the use of IPA as a pharmaceutical ingredient and excipient. IPA is widely employed as an active pharmaceutical ingredient

(API) and as an excipient in the production of various pharmaceutical formulations. It serves as a solvent in the synthesis and formulation of drugs and pharmaceutical compounds, where its purity and high solvency are essential. As India's pharmaceutical industry continues to expand, driven by factors such as population growth, rising healthcare awareness, and the country's emergence as a global pharmaceutical manufacturing hub, the demand for IPA in pharmaceutical applications has seen significant growth. IPA is also utilized in pharmaceuticals as a cleaning agent and disinfectant. It is commonly used to sanitize equipment and facilities in pharmaceutical manufacturing to maintain high levels of cleanliness and to prevent contamination. The pharmaceutical industry's strict hygiene and safety standards make IPA an indispensable component of the manufacturing process.

The pharmaceutical industry's growth has led to investments in expanding IPA production capacities and ensuring the quality and purity of the compound. A consistent supply of high-quality IPA is crucial for pharmaceutical manufacturers to meet stringent regulatory standards and quality requirements for their drug products. The growing demand for IPA in the pharmaceutical industry, with its diverse applications as an API, excipient, solvent, cleaning agent, and in the production of hand sanitizers, is a key factor propelling the growth of the Indian IPA market. As India's pharmaceutical sector continues to advance, the need for high-quality IPA as a crucial raw material and component remains strong, contributing to the nation's healthcare development and pharmaceutical manufacturing capabilities. This not only benefits the pharmaceutical industry but also strengthens India's position as a reliable source for pharmaceutical ingredients and related materials, catering to the evolving needs of modern healthcare practices and public health.

Expanding Applications in Cosmetics and Personal Care Propels India's Isopropyl Alcohol (IPA) Market Growth

The Indian Isopropyl Alcohol (IPA) market is currently witnessing significant growth, primarily driven by the expanding applications of IPA in the cosmetics and personal care industry. IPA, a versatile and widely used chemical compound, has gained prominence as a key ingredient in various cosmetic and personal care products, contributing to the market's steady growth in India. One of the major drivers behind this growth is IPA's role as an effective solvent and disinfectant in the cosmetics and personal care industry. IPA is widely used in the formulation of cosmetics, including perfumes, deodorants, and nail polish. As a solvent, IPA helps dissolve and disperse various ingredients in cosmetic products, allowing for the creation of stable and long-lasting formulations. IPA's properties make it an essential disinfectant for cosmetic tools and equipment. The

increasing demand for high-quality cosmetics and personal care products in India, driven by factors such as changing beauty standards, increased disposable income, and growing consumer awareness, has led to a surge in the use of IPA.

In the production of perfumes, IPA is employed as a diluting agent to achieve the desired fragrance concentration. Perfumes and fragrances are an integral part of the cosmetics and personal care industry, and as India's cosmetics market continues to expand, the demand for IPA as a diluent in perfume manufacturing has risen significantly. Nail polish manufacturers use IPA as a solvent for suspending pigments and maintaining the proper consistency of the polish. With the rise of nail art and beauty consciousness, the nail polish market in India has grown, further driving the demand for IPA. IPA serves as a critical ingredient in the production of hand sanitizers, which have gained substantial importance, especially in recent times due to the COVID-19 pandemic. Hand sanitizers have become a daily necessity and a public health measure. As a key component in hand sanitizer formulations, IPA has experienced an increased demand in India, with the trend expected to continue as personal hygiene remains a priority.

The cosmetics and personal care industry's growth has led to investments in expanding IPA production capacities and ensuring the quality and purity of the compound. A reliable supply of high-quality IPA is essential for cosmetics and personal care product manufacturers to meet stringent regulatory standards and safety requirements for their products. The expanding applications of IPA in the cosmetics and personal care industry, including its use as a solvent, disinfectant, and a key ingredient in products like perfumes, nail polish, and hand sanitizers, are driving the growth of the Indian IPA market. As India's cosmetics and personal care sector continues to evolve and grow, the demand for high-quality IPA as an essential raw material remains strong. This not only benefits the cosmetics and personal care industry but also strengthens India's position as a vital source for cosmetic ingredients and related materials, catering to the evolving needs of modern consumers and beauty trends.

Increasing Demand for Paints and Coatings is Driving the India Isopropyl Alcohol (IPA) Market Growth

The Indian Isopropyl Alcohol (IPA) market is experiencing substantial growth, primarily driven by the increasing demand for IPA in the paints and coatings industry. IPA, a versatile chemical compound, has found extensive use in the formulation of paints, varnishes, and coatings, making it a critical component for the paint and coatings sector in India. This burgeoning demand for IPA as a key raw material is propelling the growth

of the IPA market in the country.

One of the primary drivers behind this growth is the role of IPA as a solvent in the paints and coatings industry. IPA serves as an essential solvent in the formulation of various paint products. Its properties, such as excellent solvency and evaporation rate, make it an ideal choice for these applications. As India's construction and infrastructure sectors continue to grow, the demand for high-quality paints and coatings has seen a significant increase. The construction of residential and commercial buildings, as well as government infrastructure projects, is driving the need for IPA in the production of paints. In addition to its use as a solvent, IPA is a crucial component in the preparation of coatings and surface treatments. It enhances adhesion, promotes uniformity, and provides a smooth finish to coatings, making it an indispensable ingredient for quality finishes in the automotive, industrial, and architectural sectors. As India's automotive and industrial sectors expand, the demand for high-performance coatings and surface treatments is on the rise, further boosting the need for IPA.

IPA also plays a vital role in the production of printing inks, another significant application in the paints and coatings sector. The packaging, publishing, and textile industries rely on printing inks for various applications. As the Indian packaging industry grows due to the e-commerce boom and changing consumer preferences, the demand for printing inks has increased, contributing to the increased use of IPA in this application.

IPA is a critical component in the production of resins used in the formulation of adhesives and sealants. These materials are used in various industries, including automotive, construction, and consumer goods. The expansion of these sectors in India has resulted in a higher demand for adhesives and sealants, which, in turn, has led to an increased need for IPA as a raw material for resin production. The growth of the IPA market has prompted investments in expanding production capacities and ensuring the quality and purity of IPA. A consistent supply of high-quality IPA is essential for paint and coatings manufacturers to meet stringent regulatory standards and quality requirements for their end products.

Key Market Challenges

Volatility in Raw Material Prices

The volatility in raw material prices, particularly in the petrochemical sector, is a significant impediment to the growth of the Isopropyl Alcohol (IPA) market in India. IPA,

a versatile chemical with applications in various industries, is primarily produced from propylene, a key petrochemical feedstock. The pricing of propylene is closely linked to global market dynamics, including fluctuations in crude oil prices, supply-demand imbalances, and geopolitical events, which can lead to unpredictable price swings.

The instability in the cost of raw materials directly affects the production expenses of IPA, making it challenging for manufacturers to maintain competitive pricing and profit margins. This price volatility disrupts production planning and can lead to market instability.

To mitigate these challenges and promote growth in the India IPA market, stakeholders should consider strategies such as diversifying sourcing options, implementing long-term supply agreements, and effective inventory management. These measures are crucial for maintaining market competitiveness and fostering sustainable growth, even in the face of raw material price fluctuations.

Competition from Imports

Competition from imported Isopropyl Alcohol (IPA) is a formidable challenge to the growth of the IPA market in India. IPA is a versatile chemical widely used as a solvent, disinfectant, and in various industrial processes. The Indian market faces intense competition from overseas suppliers who often offer IPA at competitive prices, benefiting from economies of scale and cost advantages.

Imported IPA can flood the market, impacting the market share and pricing strategies of domestic producers. This increased competition puts pressure on local manufacturers, affecting their profitability and growth prospects.

To counter this challenge and stimulate growth in the India IPA market, domestic producers must focus on innovation, product quality, and operational efficiency. Collaborations, research and development efforts, and market diversification can create opportunities for growth and maintain market relevance in the face of strong international competition. Trade policies and regulatory measures can play a crucial role in safeguarding the interests of domestic producers and promoting market growth.

Key Market Trends

Increasing Use of IPA in Renewable Energy Applications

The India Isopropyl Alcohol (IPA) market is experiencing significant growth due to a key trend: the increasing use of IPA in renewable energy applications. This trend reflects India's commitment to sustainable and clean energy solutions, which are reshaping the dynamics of the IPA market in the country.

IPA, a versatile chemical compound, is gaining prominence for its critical role in renewable energy applications, particularly in the manufacturing of solar cells and photovoltaic modules. As India seeks to address its energy security concerns, reduce carbon emissions, and transition towards a greener future, the demand for solar energy has seen a substantial upsurge. IPA plays a crucial role in the production of high-efficiency solar panels and photovoltaic devices by facilitating the deposition of thin films and enhancing the performance of solar cells.

The Indian government's initiatives and incentives promoting the adoption of renewable energy sources are further driving the demand for IPA. The emphasis on clean energy aligns with the nation's commitment to mitigating climate change and reducing its environmental footprint.

The increasing use of IPA in renewable energy applications underscores the pivotal role that chemical compounds play in the advancement of sustainable and eco-friendly technologies. India's burgeoning renewable energy sector is positioning IPA as an indispensable component in the nation's transition towards cleaner energy sources, thereby fostering economic growth and promoting a more sustainable and environmentally responsible energy landscape. This trend not only addresses the nation's energy needs but also contributes to India's environmental stewardship and climate action goals, highlighting the vital link between the IPA market and the country's commitment to a sustainable future.

Emerging Applications in the Medical and Healthcare Sectors

The India Isopropyl Alcohol (IPA) market is currently witnessing substantial growth, largely attributed to the emergence of new applications in the medical and healthcare sectors. This notable trend is redefining the landscape of the IPA market, emphasizing the compound's pivotal role in ensuring the safety and well-being of individuals, particularly in the context of healthcare. For instance, In May 2020, Deepak Phenolics Limited (DPL), a wholly-owned subsidiary of Deepak Nitrite, began the commercial production of Isopropyl Alcohol (IPA), a critical product in the country's response to the COVID-19 pandemic. DPL initiated IPA production at its Dahej manufacturing facility, which has an installed capacity of 30,000 TPA. The plant will produce IPA from

Acetone, which is also manufactured at the same facility, thereby reducing supply-side risks.

IPA's remarkable properties, including its exceptional disinfectant and antiseptic characteristics, make it an indispensable component in the healthcare and medical industries. With the heightened focus on hygiene, sanitization, and infection control in the wake of global health challenges, IPA has found extensive use in the formulation of sanitizers, disinfectants, and various medical-grade cleaning products.

The ongoing COVID-19 pandemic, in particular, has accentuated the significance of IPA in the medical sector, where it is widely employed for the sanitization of surfaces, medical equipment, and personal protective equipment (PPE). Its use extends to medical-grade wipes, swabs, and as a critical component in hand sanitizers and disinfectant sprays.

The demand for IPA within the healthcare and medical sectors is further underscored by its role in pharmaceuticals, where it is used as a solvent in drug formulations, as well as in the production of medications, such as antiseptics and topical solutions.

This trend aligns with India's dedication to the well-being of its citizens, emphasizing the importance of cleanliness, hygiene, and infection control, particularly in healthcare settings. The emerging applications of IPA in these critical sectors not only ensure the safety of patients and healthcare professionals but also drive the growth of the India IPA market, emphasizing the compound's indispensable role in supporting public health and safety.

Segmental Insights

Application Insights

Based on the application, the process and preparation solvent segment emerged as the dominant player in the Indian market for Isopropyl Alcohol (IPA) in 2024, primarily due to the essential role that Isopropyl Alcohol plays as a versatile solvent and cleaning agent in various industrial applications, particularly in the manufacturing and preparation processes.

Isopropyl Alcohol, commonly known as IPA, is widely used as a solvent for dissolving and cleaning various compounds and substances. It is a vital component in the preparation, cleaning, and degreasing processes across different industries, including

pharmaceuticals, electronics, chemicals, and manufacturing.

The Indian market has witnessed significant growth in industries that rely on IPA for its solvency and cleaning properties. The demand for high-quality solvents and cleaning agents in manufacturing and preparation processes has driven the prominence of the process and preparation solvent segment in the IPA market.

The dominance of the process and preparation solvent segment is further emphasized by the adaptability and versatility of IPA in various industrial applications, making it indispensable for ensuring the quality, cleanliness, and effectiveness of processes.

As India's industrial sectors continue to grow and diversify, the demand for IPA in process and preparation solvents is expected to persist, ensuring the continued dominance of this segment in the IPA market.

End User Industry Insights

Based on the end-user industry, the pharmaceutical segment is projected to experience rapid growth during the forecast period. This dominance can be attributed to the crucial role that Isopropyl Alcohol plays in pharmaceutical manufacturing, where it is used for various critical purposes, including disinfection, cleaning, and as an active pharmaceutical ingredient (API) in certain formulations.

IPA serves as an essential disinfectant and cleaning agent in pharmaceutical manufacturing facilities, ensuring a sterile and contaminant-free environment for the production of drugs and medical products. It is used for cleaning equipment, surfaces, and instruments to maintain the highest standards of hygiene and safety in the pharmaceutical industry. IPA is employed as an API in the formulation of certain pharmaceutical products, including topical solutions, antiseptics, and sanitizers. Its antiseptic properties make it a valuable ingredient in various medical and healthcare products.

The pharmaceutical industry in India has experienced significant growth, with a focus on quality and compliance with global standards. The demand for high-purity IPA for pharmaceutical applications has driven the prominence of the pharmaceutical segment in the IPA market.

The dominance of the pharmaceutical segment is further emphasized by the stringent quality and purity requirements in pharmaceutical manufacturing, which necessitate a

reliable and high-quality source of IPA. As India's pharmaceutical sector continues to expand, the demand for IPA in pharmaceutical applications is expected to persist, ensuring the continued dominance of this segment in the IPA market.

Regional Insights

Based on the region, the South region has clearly emerged as the dominant player, underscoring its significance in the production and distribution of this essential chemical compound. Several factors contribute to the dominance of the South region, including established industrial infrastructure, access to key resources, and strategic geographical advantages.

The South region of India, particularly states like Tamil Nadu, Karnataka, and Andhra Pradesh, houses a substantial portion of the country's chemical and pharmaceutical manufacturing facilities. The region is well-known for its industrial clusters, chemical parks, and specialized zones dedicated to the chemical and pharmaceutical industries. These facilities have played a crucial role in the production and distribution of IPA, solidifying the region's dominance in the market.

The South region benefits from its strategic geographical location with access to major ports along the eastern coastline, facilitating efficient access to the import of crucial raw materials, such as propylene, which is a key feedstock for IPA production. This logistical advantage ensures a consistent supply chain for manufacturers in the region. The South region possesses a skilled workforce, a business-friendly environment, and a well-developed transportation infrastructure, further contributing to its dominance in the IPA market. As India's chemical and pharmaceutical sectors continue to grow and evolve, the South region's robust capabilities and strategic advantages make it a key contributor to the country's industrial development and the IPA market.

Key Market Players

Deepak Fertilisers and Petrochemicals Corporation Limited (DFPCL)

Navin Fluorine International Ltd

Gujarat State Fertilizers & Chemicals Ltd

Balaji Amines Ltd

Gujarat Alkalies and Chemicals Ltd

Report Scope:

In this report, the India Isopropyl Alcohol (IPA) Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

India Isopropyl Alcohol (IPA) Market, By End User Industry:

Cosmetic and Personal Care

Pharmaceutical

Electronics

Paints and Coatings

Chemical

Others

India Isopropyl Alcohol (IPA) Market, By Application:

Process and Preparation Solvent

Cleaning and Drying Agent

Coating and Dye Solvent

Intermediate

Other

India Isopropyl Alcohol (IPA) Market, By Region:

West India

North India

South India

East India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the India Isopropyl Alcohol (IPA) Market.

Available Customizations:

India Isopropyl Alcohol (IPA) 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).

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 CUSTOMERS

5. IMPACT OF COVID-19 ON INDIA ISOPROPYL ALCOHOL (IPA) MARKET

6. INDIA ISOPROPYL ALCOHOL (IPA) MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value & Volume
- 6.2. Market Share & Forecast
 - 6.2.1. By Application (Process and Preparation Solvent, Cleaning and Drying Agent, Coating and Dye Solvent, Intermediate, and Other),

6.2.2. By End User Industry (Cosmetic and Personal Care, Pharmaceutical, Electronics, Paints and Coatings, Chemical, and Other)

6.2.3. By Region (North, South, East, West)

6.2.4. By Company (2024)

6.3. Product Market Map

7. NORTH INDIA ISOPROPYL ALCOHOL (IPA) 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 End User Industry

8. SOUTH INDIA ISOPROPYL ALCOHOL (IPA) 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 End User Industry

9. EAST INDIA ISOPROPYL ALCOHOL (IPA) 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 End User Industry

10. WEST INDIA ISOPROPYL ALCOHOL (IPA) 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 End User Industry

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Merger & Acquisition
- 12.2. Product Development
- 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. PRICING ANALYSIS

15. POLICY & REGULATORY FRAMEWORK

16. INDIA ECONOMIC PROFILE

17. COMPETITIVE LANDSCAPE

- 17.1. Deepak Fertilisers and Petrochemicals Corporation Limited (DFPCL)
 - 17.1.1. Business Overview
 - 17.1.2. Company Snapshot
 - 17.1.3. Products & Services
 - 17.1.4. Financials (As Reported)
 - 17.1.5. Recent Developments
 - 17.1.6. Key Personnel Details
 - 17.1.7. SWOT Analysis
- 17.2. Navin Fluorine International Ltd
- 17.3. Gujarat State Fertilizers & Chemicals Ltd
- 17.4. Balaji Amines Ltd
- 17.5. Gujarat Alkalies and Chemicals Ltd.

18. STRATEGIC RECOMMENDATIONS

19. ABOUT US AND DISCLAIMER

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