

Nitrobenzene Market Forecasts to 2032 – Global Analysis By Product Grade (Technical Grade, Super Extra Grade, Refined Grade and Other Product Grades), Form (Liquid and Powder), Sales Channel, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Nitrobenzene Market is accounted for \$14.43 billion in 2025 and is expected to reach \$24.10 billion by 2032 growing at a CAGR of 7.6% during the forecast period. The chemical formula for the organic compound nitrobenzene is $C_6H_5NO_2$. It is an oily, pale yellow liquid that smells like almonds. Its main use is as a precursor to aniline, a crucial intermediate in the production of rubber chemicals, dyes, and medications. By nitrating benzene with a solution of concentrated sulfuric and nitric acids, nitrobenzene is created. Despite its industrial significance, nitrobenzene is toxic and can harm human health through skin absorption, ingestion, or inhalation. Moreover, its handling necessitates stringent safety precautions and regulatory compliance due to its hazardous nature.

According to the International Programme on Chemical Safety (IPCS), global nitrobenzene production in 1994 was estimated at approximately 2.13 million tonnes, with the United States contributing about one-third of this volume.

Market Dynamics:

Driver:

Growing interest in agrochemicals

There is a growing demand on agriculture to feed the world's expanding population on a

finite amount of arable land. Agrochemicals like fertilizers, pesticides, and plant growth stimulants are now more frequently used to increase crop yield and productivity as a result of this difficulty. In the production of various agrochemicals, nitrobenzene is occasionally utilized directly in plant growth promoters, particularly in the production of vegetables and cotton. Additionally, the market for nitrobenzene is anticipated to be further supported by the growing use of contemporary farming methods and the growth of agriculture in developing nations.

Restraint:

High upkeep and capital expenses

A large amount of capital is required to set up and run a nitrobenzene production facility because sophisticated reactors, high-pressure systems, and reliable safety measures are required. Due to the requirement for frequent inspections, corrosion control, emission monitoring, and employee health examinations, maintaining such facilities is also costly. This expense burden deters smaller manufacturers from expanding and is a significant barrier to entry for new players. Furthermore, retrofitting older plants to comply with more recent safety and environmental regulations comes at an additional cost.

Opportunity:

Growing requirement for green building insulation based on polyurethane

The market for nitrobenzene has a lot of potential because green building standards and energy-efficient building materials are becoming more and more popular worldwide. The primary precursor to MDI, which is utilized in polyurethane foam insulation and is highly prized for its superior thermal performance and capacity to lower building energy consumption, is aniline derived from nitrobenzene. Moreover, the demand for insulation materials based on polyurethane is anticipated to rise sharply as a result, particularly in urban infrastructure, which will indirectly raise the consumption of nitrobenzene.

Threat:

Regulation examination and prohibitions in specific areas

Regulatory bodies around the world are paying more and more attention to nitrobenzene because of its toxicity, environmental persistence, and designation as a

hazardous chemical. Hazardous intermediates like nitrobenzene are being phased out or subject to import restrictions in some jurisdictions. Additionally, market continuity could be seriously threatened if more nations impose strict regulations or outright bans on the compound because of health and environmental concerns. This would force companies to look for alternatives and drastically reduce the compound's market reach.

Covid-19 Impact:

The COVID-19 pandemic affected the nitrobenzene market in a variety of ways. During the early stages, lockdowns, manufacturing restrictions, and a shortage of workers caused significant disruptions to global supply chains, temporarily impeding the production and logistics of nitrobenzene. A slowdown in important end-use sectors like construction and automobiles decreased demand for polyurethane foams made from aniline based on nitrobenzene. However, the market was somewhat stable due to the agricultural sector's resilience, which also uses nitrobenzene in plant growth stimulants. After the pandemic, the market for nitrobenzene was gradually revived as economies started to recover and infrastructure investments resumed, which in turn increased demand for building and automotive materials.

The technical grade segment is expected to be the largest during the forecast period

The technical grade segment is expected to account for the largest market share during the forecast period. The main reason for its dominance is that it is widely used as an intermediate in the synthesis of aniline, which is then used to make methylene diphenyl diisocyanate (MDI), an essential ingredient in the synthesis of polyurethane. Its market position is further strengthened by its suitability for bulk industrial applications and relatively lower cost. Additionally, the demand for insulation materials based on polyurethane is being fueled by the fast expansion of infrastructure and urbanization, particularly in Asia-Pacific. This is indirectly increasing the use of technical-grade nitrobenzene and solidifying its market dominance worldwide.

The pesticide additive segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the pesticide additive segment is predicted to witness the highest growth rate. The primary forces behind this growth are the growing need to increase crop yields in the face of declining arable land and the growing demand for greater agricultural productivity worldwide. In Asia-Pacific nations, where agriculture is a major economic driver, nitrobenzene is widely used as a plant energizer and flowering

stimulant in a variety of crops. It is increasingly being used in conventional and organic farming methods due to its ability to boost plant growth and encourage photosynthesis. Furthermore, pesticide additives are now the fastest-growing application of nitrobenzene worldwide, owing to additional government initiatives and increased awareness of advanced agrochemical inputs.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share. Fast industrialization, a strong chemical manufacturing sector and high demand from end-use industries like construction, automotive, agriculture, and pharmaceuticals in nations like China, India, and Japan are the main causes of this dominance. China, in particular, is crucial because it produces a significant amount of aniline, a crucial nitrobenzene derivative. Many foreign manufacturers have been drawn to the area by its competitive advantages, which include cheap labor and infrastructure costs. This has increased production capacities and consumption even more. Moreover, Asia Pacific is in a strong position to continue leading the world market for nitrobenzene owing to ongoing industrial development and economic growth.

Region with highest CAGR:

Over the forecast period, the Middle East and Africa region is anticipated to exhibit the highest CAGR. Countries like Saudi Arabia and the United Arab Emirates are making significant investments in their chemical industries, which is driving the region's growing emphasis on petrochemical production and industrial expansion. Infrastructure development and increased demand for end products, like aniline for a variety of uses, are driving the nitrobenzene market's expansion. Furthermore, the MEA region's rapid growth is anticipated to be facilitated by its access to a growing base of manufacturing facilities and an abundance of raw materials.

Key players in the market

Some of the key players in Nitrobenzene Market include Aarti Industries Ltd., Chevron Phillips Chemical Company, Dow Chemical Company, SABIC, Covestro AG, Exxon Mobil Corporation, Huntsman International LLC., BASF SE, Sumitomo Chemical Co., Ltd., Chemours Company, Finetech Industry Limited, Sadhana Nitro Chemical Ltd, Bayer AG, Royal Dutch Shell and SP Chemicals Pte Ltd.

Key Developments:

In January 2025, Aarti Industries Limited has entered into a share subscription and shareholder's agreement with 'Prozeal Green Power Private Limited' and 'Pro-Zeal Green Power Seven Private Limited. This transaction entails acquisition of 26.25% equity shares/voting rights and compulsory convertible debentures by the company in Pro#- #Zeal Green Power Seven Private Limited, operating, and maintaining a 9.24 MW solar power plant exclusively to cater the company's power requirement partly.

In October 2024, Covestro AG has signed an investment agreement with the Abu Dhabi National Oil Co. (ADNOC) Group (United Arab Emirates), including ADNOC International Ltd. and its subsidiary, ADNOC International Germany Holding AG (the bidder). When this transaction is finalized, two Middle Eastern companies — SABIC and ADNOC — will control a big chunk of engineering thermoplastic resins.

In May 2024, Dow Chemical International Private Limited and Glass Wall Systems India signed an agreement for Dow to supply DOWSIL™ Facade Sealants from Dow's Decarbica™ portfolio of reduced-carbon solutions, for Glass Wall System's curtain wall system. A first-of-its-kind global initiative, this collaboration demonstrates an unwavering dedication from organizations in the building and infrastructure industry to reduce embodied carbon in building materials.

Product Grades Covered:

Technical Grade

Super Extra Grade

Refined Grade

Other Product Grades

Forms Covered:

Liquid

Powder

Sales Channels Covered:

- Direct Company Sale
- Direct Import
- Distributors and Traders
- Retailers

Applications Covered:

- Aniline Production
- Pesticide Additive
- Synthetic Rubber Manufacturing
- Paint Solvent
- Other Applications

End Users Covered:

- Construction
- Agriculture
- Pharmaceutical
- Automotive
- Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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