

Anthracene Market Forecasts to 2030 – Global Analysis By Product Type (Crude Anthracene and Refined Anthracene), Grade, Application and By Geography

<https://marketpublishers.com/r/A6FFA07784E2EN.html>

Date: February 2025

Pages: 150

Price: US\$ 4,150.00 (Single User License)

ID: A6FFA07784E2EN

Abstracts

According to Statistics MRC, the Global Anthracene Market is accounted for \$359.4 million in 2024 and is expected to reach \$512.7 million by 2030 growing at a CAGR of 6.1% during the forecast period. Anthracene is a solid polycyclic aromatic hydrocarbon (PAH) derived from coal tar, used in dye production, as an intermediate for synthetic colorants, and as a precursor for organic semiconductors. Its stable conjugated structure makes it highly photo chemically reactive, making it valuable in photoconductors and OLEDs. Despite its natural presence in fossil fuels, it can be synthetically produced. However, it is classified as a pollutant due to its presence in combustion by-products and poses potential environmental and health risks. Proper handling and disposal are necessary to minimize its hazardous effects.

According to 2022 data, this resulted in 9.6 million deaths worldwide, with around 68,778 deaths in Argentina. In addition, cancer deaths are expected to increase globally, reaching 13.1 million by 2030.

Market Dynamics:

Driver:

Growing demand for high-performance coatings and construction materials

Anthracene, a polycyclic aromatic hydrocarbon, is increasingly utilized in the production of high-quality materials that offer enhanced durability, resistance, and performance,

making them ideal for demanding applications. With the rise in infrastructure development and construction, the need for these materials has surged globally. Additionally, advancements in manufacturing techniques have enabled the creation of specialized coatings that utilize anthracene, further driving demand. As industries continue to focus on improving product quality and lifespan, the adoption of anthracene-based materials is expected to grow substantially.

Restraint:

Health hazards and toxicity concerns

Anthracene, being a chemical compound, can pose significant health risks if not handled properly, including potential carcinogenicity. Regulatory bodies across the globe are imposing stricter safety standards, requiring industries to invest in advanced protective measures to ensure worker safety. This not only increases operational costs but also slows the adoption of anthracene in some sectors. As awareness of these health risks continues to grow, industries are under pressure to find safer alternatives, further limiting the potential of anthracene in the market.

Opportunity:

Increasing applications in organic electronics and semiconductors

Increasing applications in organic electronics and semiconductors represent a key opportunity for the anthracene market. As technology continues to evolve, there is a growing demand for materials with high electrical conductivity and chemical stability, both of which are provided by anthracene. These technologies require high-performance organic semiconductors, where anthracene plays a critical role in their functionality. With more industries exploring the potential of organic electronics, the use of anthracene is poised to increase significantly, offering substantial market growth opportunities.

Threat:

Declining coal tar production

Coal tar is a primary source for extracting anthracene, and any reduction in its production directly impacts the availability and cost of anthracene. As environmental regulations become stricter and coal usage declines in favor of cleaner energy sources,

the availability of coal tar is expected to decrease. This could drive up the cost of anthracene and limit its widespread adoption in industries dependent on it. Furthermore, the shift towards more sustainable practices may also encourage the search for alternatives to anthracene, thereby reducing its market share in the long term.

Covid-19 Impact

While global disruptions in supply chains and shifts in economic priorities affected production, the need for advanced coatings and materials for infrastructure recovery led to some stabilization in demand for anthracene. The construction and manufacturing sectors are expected to rebound post-pandemic, driving further growth in the use of high-performance materials. However, the pandemic also heightened concerns around the environmental and health impacts of chemicals like anthracene, leading to more stringent regulations. Overall, while the market faced some setbacks, it is poised for recovery as demand for industrial materials resumes.

The crude anthracene segment is expected to be the largest during the forecast period

The crude anthracene segment is expected to account for the largest market share during the forecast period owing to various high-performance materials, including dyes, pigments, and resins. As industries demand higher-quality coatings and materials for construction, the need for crude anthracene is set to increase. Additionally, crude anthracene serves as a precursor for the synthesis of more refined products, expanding its role across various sectors. This makes the crude anthracene segment essential for both current and future market developments, supporting its position as the largest segment in the market.

The dyes & pigments segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the dyes & pigments segment is predicted to witness the highest growth rate due to colours and stability, making them suitable for a wide range of applications in textiles, coatings, and plastics. As industries continue to prioritize high-quality aesthetic finishes and environmentally friendly products, the demand for anthracene-based dyes is set to grow rapidly. Moreover, the increasing adoption of eco-friendly alternatives in the pigment industry, where anthracene plays a key role, is expected to drive its market growth. This segment's rapid expansion reflects the broader trend towards more sustainable and innovative products in the global market.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share owing to demand for advanced materials in construction, coatings, and electronics. The growing focus on high-performance materials for infrastructure projects, along with the increasing adoption of sustainable technologies, has created a strong demand for anthracene-based products. Additionally, North America benefits from advanced manufacturing capabilities and regulatory frameworks that drive the adoption of specialized coatings and materials, further cementing its dominance in the anthracene market. As industries prioritize efficiency and innovation, North America is poised to maintain its lead in market share.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR due to rapidly developing economies like China, India, and Southeast Asia, the demand for construction materials, high-performance coatings, and electronic components is rising significantly. The region's expanding industrial base, coupled with increased investments in infrastructure and technology, is driving the need for anthracene-based products. Furthermore, the shift towards more sustainable production practices is creating new opportunities for the adoption of eco-friendly materials. As a result, the Asia Pacific market is projected to experience robust growth.

Key players in the market

Some of the key players in Anthracene market include Aparna Carbons Private Limited, Chemos GmbH & Co. KG, Deepak Petrochem LTD, Fisher Scientific, Glentham Life Sciences, Haihang Industry Co., Ltd., Henan Daken Chemical Co., Ltd., Junsei Chemical Co., Ltd., Kishida Chemical Co., Ltd., Merck KGaA, SAE Manufacturing Specialties Corp, Santa Cruz Biotechnology, Inc., Spectrum Chemical, Tokyo Chemical Industry Co., Ltd and Wego Chemical Group.

Key Developments:

In January 2025, Merck partnered with Opentrons Labworks, Inc., supporting lab of the future. Custom robotic workstation automates company's broad portfolio of biology assays for academia, biotech, and pharma.

In January 2025, Thermo Fisher Scientific Inc., unveiled the Gibco™ CTS™ Detachable

Dynabeads™ CD4 and CTS Detachable Dynabeads CD8 (CTS Detachable Dynabeads)*. These latest products expand on Thermo Fisher's CTS Detachable Dynabeads platform, which represents a new generation of cell therapy isolation and/or activation products that prioritize cell quality while also creating greater workflow control.

In December 2024, Thermo Fisher Scientific introduced fully integrated multimodal analytical scanning transmission electron microscope to advance novel research in materials science. The Thermo Scientific™ Iliad™ (Scanning) Transmission Electron Microscope, (S)TEM, gives scientific pioneers deeper insights about the chemical nature of the most sophisticated modern materials, down to the atomic level.

Product Types Covered:

Crude Anthracene

Refined Anthracene

Grades Covered:

Industrial Grade

Pharmaceutical Grade

Applications Covered:

Dyes & Pigments

Polymers & Plastics

Pesticides

Wood Preservatives

Electronic Devices

Pharmaceuticals

Other Applications

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 2022, 2023, 2024, 2026, and 2030
- 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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