

Global 9,10-Phenanthrenedione Market Growth 2026-2032

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Abstracts

The global 9,10-Phenanthrenedione market size is predicted to grow from US\$ 242 million in 2025 to US\$ 386 million in 2032; it is expected to grow at a CAGR of 7.0% from 2026 to 2032.

9,10-Phenanthrenedione (also known as phenanthrenequinone) is an aromatic diketone compound derived from phenanthrene, characterized by two carbonyl (C=O) groups positioned at the 9 and 10 locations on the fused polycyclic ring system. It is typically a yellow crystalline solid with strong oxidizing and electron-accepting properties, making it valuable as an intermediate in organic synthesis, redox-active materials, pharmaceuticals, dyes, and advanced functional materials (e.g., organic semiconductors and battery-related research). From a supply chain perspective, the upstream begins with coal tar or petroleum-derived aromatics, where phenanthrene is extracted as part of polycyclic aromatic hydrocarbon (PAH) fractions from coal tar distillation or catalytic reforming streams. The midstream involves chemical oxidation processes commonly using oxidizing agents such as chromates, nitric acid, or catalytic air oxidation to convert phenanthrene into 9,10-phenanthrenedione under controlled conditions. Downstream, the compound is purified (via recrystallization or sublimation) and supplied to specialty chemical manufacturers, pharmaceutical intermediates producers, dye and pigment companies, and research-grade material suppliers. End-use sectors include pharmaceuticals, organic electronics, chemical synthesis reagents, and emerging energy storage materials (e.g., redox-active organic electrodes). In 2025, global 9,10-Phenanthrenedione output was about 32,000 tons with 45,000 tons of capacity, average prices of USD 6,000 - 9,000 per ton, and gross margins around 28%.

United States market for 9,10-Phenanthrenedione is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for 9,10-Phenanthrenedione is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for 9,10-Phenanthrenedione is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key 9,10-Phenanthrenedione players cover Thermo Fisher Scientific (USA), Sigma-Aldrich (USA), Alfa Chemistry (USA), Tokyo Chemical Industry (Japan), FUJIFILM Wako Pure Chemical (Japan), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?9,10-Phenanthrenedione Industry Forecast? looks at past sales and reviews total world 9,10-Phenanthrenedione sales in 2025, providing a comprehensive analysis by region and market sector of projected 9,10-Phenanthrenedione sales for 2026 through 2032. With 9,10-Phenanthrenedione sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 9,10-Phenanthrenedione industry.

This Insight Report provides a comprehensive analysis of the global 9,10-Phenanthrenedione landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 9,10-Phenanthrenedione portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global 9,10-Phenanthrenedione market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 9,10-Phenanthrenedione and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 9,10-Phenanthrenedione.

This report presents a comprehensive overview, market shares, and growth opportunities of 9,10-Phenanthrenedione market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Industrial Grade (>95%)

High-Purity Grade (>99%)

Ultra-High-Purity Grade (>99.9%)

Segmentation by Physical Form:

Crystalline

Powder

Solution

Segmentation by Application:

Pharmaceutical

Pigment & Coating

Functional Material

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Thermo Fisher Scientific (USA)

Sigma-Aldrich (USA)

Alfa Chemistry (USA)

Tokyo Chemical Industry (Japan)

FUJIFILM Wako Pure Chemical (Japan)

Amadis Chemical (China)

BLD Pharmatech (China)

Shanghai Aladdin Biochemical (China)

Macklin Biochemical (China)

Daejung Chemicals (South Korea)

Key Questions Addressed in this Report

What is the 10-year outlook for the global 9,10-Phenanthrenedione market?

What factors are driving 9,10-Phenanthrenedione market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 9,10-Phenanthrenedione market opportunities vary by end market size?

How does 9,10-Phenanthrenedione break out by Type, by Application?

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