

Global 9,10-Phenanthrenedione Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 9,10-Phenanthrenedione market size was valued at US\$ 254 million in 2025 and is forecast to a readjusted size of US\$ 397 million by 2032 with a CAGR of 6.5% during review period.

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%.

This report is a detailed and comprehensive analysis for global 9,10-Phenanthredione market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 9,10-Phenanthredione market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 9,10-Phenanthredione market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 9,10-Phenanthredione market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 9,10-Phenanthredione market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 9,10-Phenanthredione

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 9,10-Phenanthredione market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

9,10-Phenanthrenedione market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Industrial Grade (>95%)

High-Purity Grade (>99%)

Ultra-High-Purity Grade (>99.9%)

Market segment by Physical Form

Crystalline

Powder

Solution

Market segment by Application

Pharmaceutical

Pigment & Coating

Functional Material

Others

Major players covered

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)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of

Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 9,10-Phenanthredione product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 9,10-Phenanthredione, with price, sales quantity, revenue, and global market share of 9,10-Phenanthredione from 2021 to 2026.

Chapter 3, the 9,10-Phenanthredione competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 9,10-Phenanthredione breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and 9,10-Phenanthredione market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 9,10-Phenanthredione.

Chapter 14 and 15, to describe 9,10-Phenanthredione sales channel, distributors, customers, research findings and conclusion.

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