

Global 9,10-Phenanthrene-dione Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 9,10-Phenanthrene-dione market size is expected to reach \$ 397 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

9,10-Phenanthrene-dione (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-phenanthrene-dione 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-Phenanthrene-dione 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 studies the global 9,10-Phenanthrene-dione production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 9,10-Phenanthrenedione and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 9,10-Phenanthrenedione that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 9,10-Phenanthrenedione total production and demand, 2021-2032, (Tons)

Global 9,10-Phenanthrenedione total production value, 2021-2032, (USD Million)

Global 9,10-Phenanthrenedione production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global 9,10-Phenanthrenedione consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: 9,10-Phenanthrenedione domestic production, consumption, key domestic manufacturers and share

Global 9,10-Phenanthrenedione production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global 9,10-Phenanthrenedione production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global 9,10-Phenanthrenedione production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global 9,10-Phenanthrenedione market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 9,10-Phenanthrenedione market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 9,10-Phenanthrene-1,4-dione Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 9,10-Phenanthrene-1,4-dione Market, Segmentation by Type:

Industrial Grade (>95%)

High-Purity Grade (>99%)

Ultra-High-Purity Grade (>99.9%)

Global 9,10-Phenanthrene-1,4-dione Market, Segmentation by Physical Form:

Crystalline

Powder

Solution

Global 9,10-Phenanthrene-1,4-dione Market, Segmentation by Application:

Pharmaceutical

Pigment & Coating

Functional Material

Others

Companies Profiled:

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 Answered:

1. How big is the global 9,10-Phenanthrene-dione market?
2. What is the demand of the global 9,10-Phenanthrene-dione market?
3. What is the year over year growth of the global 9,10-Phenanthrene-dione market?
4. What is the production and production value of the global 9,10-Phenanthrene-dione market?
5. Who are the key producers in the global 9,10-Phenanthrene-dione market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 9,10-Phenanthredione Introduction
- 1.2 World 9,10-Phenanthredione Supply & Forecast
 - 1.2.1 World 9,10-Phenanthredione Production Value (2021 & 2025 & 2032)
 - 1.2.2 World 9,10-Phenanthredione Production (2021-2032)
 - 1.2.3 World 9,10-Phenanthredione Pricing Trends (2021-2032)
- 1.3 World 9,10-Phenanthredione Production by Region (Based on Production Site)
 - 1.3.1 World 9,10-Phenanthredione Production Value by Region (2021-2032)
 - 1.3.2 World 9,10-Phenanthredione Production by Region (2021-2032)
 - 1.3.3 World 9,10-Phenanthredione Average Price by Region (2021-2032)
 - 1.3.4 North America 9,10-Phenanthredione Production (2021-2032)
 - 1.3.5 Europe 9,10-Phenanthredione Production (2021-2032)
 - 1.3.6 China 9,10-Phenanthredione Production (2021-2032)
 - 1.3.7 Japan 9,10-Phenanthredione Production (2021-2032)
 - 1.3.8 India 9,10-Phenanthredione Production (2021-2032)
 - 1.3.9 Southeast Asia 9,10-Phenanthredione Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 9,10-Phenanthredione Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 9,10-Phenanthredione Major Market Trends

2 DEMAND SUMMARY

- 2.1 World 9,10-Phenanthredione Demand (2021-2032)
- 2.2 World 9,10-Phenanthredione Consumption by Region
 - 2.2.1 World 9,10-Phenanthredione Consumption by Region (2021-2026)
 - 2.2.2 World 9,10-Phenanthredione Consumption Forecast by Region (2027-2032)
- 2.3 United States 9,10-Phenanthredione Consumption (2021-2032)
- 2.4 China 9,10-Phenanthredione Consumption (2021-2032)
- 2.5 Europe 9,10-Phenanthredione Consumption (2021-2032)
- 2.6 Japan 9,10-Phenanthredione Consumption (2021-2032)
- 2.7 South Korea 9,10-Phenanthredione Consumption (2021-2032)
- 2.8 ASEAN 9,10-Phenanthredione Consumption (2021-2032)
- 2.9 India 9,10-Phenanthredione Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World 9,10-Phenanthredione Production Value by Manufacturer (2021-2026)
- 3.2 World 9,10-Phenanthredione Production by Manufacturer (2021-2026)
- 3.3 World 9,10-Phenanthredione Average Price by Manufacturer (2021-2026)
- 3.4 9,10-Phenanthredione Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global 9,10-Phenanthredione Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for 9,10-Phenanthredione in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for 9,10-Phenanthredione in 2025
- 3.6 9,10-Phenanthredione Market: Overall Company Footprint Analysis
 - 3.6.1 9,10-Phenanthredione Market: Region Footprint
 - 3.6.2 9,10-Phenanthredione Market: Company Product Type Footprint
 - 3.6.3 9,10-Phenanthredione Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: 9,10-Phenanthredione Production Value Comparison
 - 4.1.1 United States VS China: 9,10-Phenanthredione Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: 9,10-Phenanthredione Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: 9,10-Phenanthredione Production Comparison
 - 4.2.1 United States VS China: 9,10-Phenanthredione Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: 9,10-Phenanthredione Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: 9,10-Phenanthredione Consumption Comparison
 - 4.3.1 United States VS China: 9,10-Phenanthredione Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: 9,10-Phenanthredione Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based 9,10-Phenanthredione Manufacturers and Market Share, 2021-2026

4.4.1 United States Based 9,10-Phenanthrenedione Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers 9,10-Phenanthrenedione Production Value (2021-2026)

4.4.3 United States Based Manufacturers 9,10-Phenanthrenedione Production (2021-2026)

4.5 China Based 9,10-Phenanthrenedione Manufacturers and Market Share

4.5.1 China Based 9,10-Phenanthrenedione Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers 9,10-Phenanthrenedione Production Value (2021-2026)

4.5.3 China Based Manufacturers 9,10-Phenanthrenedione Production (2021-2026)

4.6 Rest of World Based 9,10-Phenanthrenedione Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based 9,10-Phenanthrenedione Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers 9,10-Phenanthrenedione Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers 9,10-Phenanthrenedione Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World 9,10-Phenanthrenedione Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Industrial Grade (>95%)

5.2.2 High-Purity Grade (>99%)

5.2.3 Ultra-High-Purity Grade (>99.9%)

5.3 Market Segment by Type

5.3.1 World 9,10-Phenanthrenedione Production by Type (2021-2032)

5.3.2 World 9,10-Phenanthrenedione Production Value by Type (2021-2032)

5.3.3 World 9,10-Phenanthrenedione Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PHYSICAL FORM

6.1 World 9,10-Phenanthrenedione Market Size Overview by Physical Form: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Physical Form

6.2.1 Crystalline

6.2.2 Powder

6.2.3 Solution

6.3 Market Segment by Physical Form

6.3.1 World 9,10-Phenanthrenedione Production by Physical Form (2021-2032)

6.3.2 World 9,10-Phenanthrenedione Production Value by Physical Form (2021-2032)

6.3.3 World 9,10-Phenanthrenedione Average Price by Physical Form (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World 9,10-Phenanthrenedione Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Pharmaceutical

7.2.2 Pigment & Coating

7.2.3 Functional Material

7.2.4 Others

7.3 Market Segment by Application

7.3.1 World 9,10-Phenanthrenedione Production by Application (2021-2032)

7.3.2 World 9,10-Phenanthrenedione Production Value by Application (2021-2032)

7.3.3 World 9,10-Phenanthrenedione Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Thermo Fisher Scientific (USA)

8.1.1 Thermo Fisher Scientific (USA) Details

8.1.2 Thermo Fisher Scientific (USA) Major Business

8.1.3 Thermo Fisher Scientific (USA) 9,10-Phenanthrenedione Product and Services

8.1.4 Thermo Fisher Scientific (USA) 9,10-Phenanthrenedione Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Thermo Fisher Scientific (USA) Recent Developments/Updates

8.1.6 Thermo Fisher Scientific (USA) Competitive Strengths & Weaknesses

8.2 Sigma-Aldrich (USA)

8.2.1 Sigma-Aldrich (USA) Details

8.2.2 Sigma-Aldrich (USA) Major Business

8.2.3 Sigma-Aldrich (USA) 9,10-Phenanthrenedione Product and Services

8.2.4 Sigma-Aldrich (USA) 9,10-Phenanthrenedione Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 Sigma-Aldrich (USA) Recent Developments/Updates

- 8.2.6 Sigma-Aldrich (USA) Competitive Strengths & Weaknesses
- 8.3 Alfa Chemistry (USA)
 - 8.3.1 Alfa Chemistry (USA) Details
 - 8.3.2 Alfa Chemistry (USA) Major Business
 - 8.3.3 Alfa Chemistry (USA) 9,10-Phenanthrenedione Product and Services
 - 8.3.4 Alfa Chemistry (USA) 9,10-Phenanthrenedione Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.3.5 Alfa Chemistry (USA) Recent Developments/Updates
 - 8.3.6 Alfa Chemistry (USA) Competitive Strengths & Weaknesses
- 8.4 Tokyo Chemical Industry (Japan)
 - 8.4.1 Tokyo Chemical Industry (Japan) Details
 - 8.4.2 Tokyo Chemical Industry (Japan) Major Business
 - 8.4.3 Tokyo Chemical Industry (Japan) 9,10-Phenanthrenedione Product and Services
 - 8.4.4 Tokyo Chemical Industry (Japan) 9,10-Phenanthrenedione Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.4.5 Tokyo Chemical Industry (Japan) Recent Developments/Updates
 - 8.4.6 Tokyo Chemical Industry (Japan) Competitive Strengths & Weaknesses
- 8.5 FUJIFILM Wako Pure Chemical (Japan)
 - 8.5.1 FUJIFILM Wako Pure Chemical (Japan) Details
 - 8.5.2 FUJIFILM Wako Pure Chemical (Japan) Major Business
 - 8.5.3 FUJIFILM Wako Pure Chemical (Japan) 9,10-Phenanthrenedione Product and Services
 - 8.5.4 FUJIFILM Wako Pure Chemical (Japan) 9,10-Phenanthrenedione Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 FUJIFILM Wako Pure Chemical (Japan) Recent Developments/Updates
 - 8.5.6 FUJIFILM Wako Pure Chemical (Japan) Competitive Strengths & Weaknesses
- 8.6 Amadis Chemical (China)
 - 8.6.1 Amadis Chemical (China) Details
 - 8.6.2 Amadis Chemical (China) Major Business
 - 8.6.3 Amadis Chemical (China) 9,10-Phenanthrenedione Product and Services
 - 8.6.4 Amadis Chemical (China) 9,10-Phenanthrenedione Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.6.5 Amadis Chemical (China) Recent Developments/Updates
 - 8.6.6 Amadis Chemical (China) Competitive Strengths & Weaknesses
- 8.7 BLD Pharmatech (China)
 - 8.7.1 BLD Pharmatech (China) Details
 - 8.7.2 BLD Pharmatech (China) Major Business
 - 8.7.3 BLD Pharmatech (China) 9,10-Phenanthrenedione Product and Services
 - 8.7.4 BLD Pharmatech (China) 9,10-Phenanthrenedione Production, Price, Value,

Gross Margin and Market Share (2021-2026)

8.7.5 BLD Pharmatech (China) Recent Developments/Updates

8.7.6 BLD Pharmatech (China) Competitive Strengths & Weaknesses

8.8 Shanghai Aladdin Biochemical (China)

8.8.1 Shanghai Aladdin Biochemical (China) Details

8.8.2 Shanghai Aladdin Biochemical (China) Major Business

8.8.3 Shanghai Aladdin Biochemical (China) 9,10-Phenanthredione Product and Services

8.8.4 Shanghai Aladdin Biochemical (China) 9,10-Phenanthredione Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 Shanghai Aladdin Biochemical (China) Recent Developments/Updates

8.8.6 Shanghai Aladdin Biochemical (China) Competitive Strengths & Weaknesses

8.9 Macklin Biochemical (China)

8.9.1 Macklin Biochemical (China) Details

8.9.2 Macklin Biochemical (China) Major Business

8.9.3 Macklin Biochemical (China) 9,10-Phenanthredione Product and Services

8.9.4 Macklin Biochemical (China) 9,10-Phenanthredione Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 Macklin Biochemical (China) Recent Developments/Updates

8.9.6 Macklin Biochemical (China) Competitive Strengths & Weaknesses

8.10 Daejung Chemicals (South Korea)

8.10.1 Daejung Chemicals (South Korea) Details

8.10.2 Daejung Chemicals (South Korea) Major Business

8.10.3 Daejung Chemicals (South Korea) 9,10-Phenanthredione Product and Services

8.10.4 Daejung Chemicals (South Korea) 9,10-Phenanthredione Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.10.5 Daejung Chemicals (South Korea) Recent Developments/Updates

8.10.6 Daejung Chemicals (South Korea) Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 9,10-Phenanthredione Industry Chain

9.2 9,10-Phenanthredione Upstream Analysis

9.2.1 9,10-Phenanthredione Core Raw Materials

9.2.2 Main Manufacturers of 9,10-Phenanthredione Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 9,10-Phenanthredione Production Mode

9.6 9,10-Phenanthrenedione Procurement Model

9.7 9,10-Phenanthrenedione Industry Sales Model and Sales Channels

9.7.1 9,10-Phenanthrenedione Sales Model

9.7.2 9,10-Phenanthrenedione Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World 9,10-Phenanthrenedione Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World 9,10-Phenanthrenedione Production Value by Region (2021-2026) & (USD Million)

Table 3. World 9,10-Phenanthrenedione Production Value by Region (2027-2032) & (USD Million)

Table 4. World 9,10-Phenanthrenedione Production Value Market Share by Region (2021-2026)

Table 5. World 9,10-Phenanthrenedione Production Value Market Share by Region (2027-2032)

Table 6. World 9,10-Phenanthrenedione Production by Region (2021-2026) & (Tons)

Table 7. World 9,10-Phenanthrenedione Production by Region (2027-2032) & (Tons)

Table 8. World 9,10-Phenanthrenedione Production Market Share by Region (2021-2026)

Table 9. World 9,10-Phenanthrenedione Production Market Share by Region (2027-2032)

Table 10. World 9,10-Phenanthrenedione Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World 9,10-Phenanthrenedione Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. 9,10-Phenanthrenedione Major Market Trends

Table 13. World 9,10-Phenanthrenedione Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World 9,10-Phenanthrenedione Consumption by Region (2021-2026) & (Tons)

Table 15. World 9,10-Phenanthrenedione Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World 9,10-Phenanthrenedione Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key 9,10-Phenanthrenedione Producers in 2025

Table 18. World 9,10-Phenanthrenedione Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key 9,10-Phenanthrenedione Producers in 2025

Table 20. World 9,10-Phenanthrenedione Average Price by Manufacturer (2021-2026)

& (US\$/Ton)

Table 21. Global 9,10-Phenanthrenedione Company Evaluation Quadrant

Table 22. World 9,10-Phenanthrenedione Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and 9,10-Phenanthrenedione Production Site of Key Manufacturer

Table 24. 9,10-Phenanthrenedione Market: Company Product Type Footprint

Table 25. 9,10-Phenanthrenedione Market: Company Product Application Footprint

Table 26. 9,10-Phenanthrenedione Competitive Factors

Table 27. 9,10-Phenanthrenedione New Entrant and Capacity Expansion Plans

Table 28. 9,10-Phenanthrenedione Mergers & Acquisitions Activity

Table 29. United States VS China 9,10-Phenanthrenedione Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China 9,10-Phenanthrenedione Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China 9,10-Phenanthrenedione Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based 9,10-Phenanthrenedione Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers 9,10-Phenanthrenedione Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers 9,10-Phenanthrenedione Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers 9,10-Phenanthrenedione Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers 9,10-Phenanthrenedione Production Market Share (2021-2026)

Table 37. China Based 9,10-Phenanthrenedione Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers 9,10-Phenanthrenedione Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers 9,10-Phenanthrenedione Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers 9,10-Phenanthrenedione Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers 9,10-Phenanthrenedione Production Market Share (2021-2026)

Table 42. Rest of World Based 9,10-Phenanthrenedione Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers 9,10-Phenanthredione Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers 9,10-Phenanthredione Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers 9,10-Phenanthredione Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers 9,10-Phenanthredione Production Market Share (2021-2026)

Table 47. World 9,10-Phenanthredione Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World 9,10-Phenanthredione Production by Type (2021-2026) & (Tons)

Table 49. World 9,10-Phenanthredione Production by Type (2027-2032) & (Tons)

Table 50. World 9,10-Phenanthredione Production Value by Type (2021-2026) & (USD Million)

Table 51. World 9,10-Phenanthredione Production Value by Type (2027-2032) & (USD Million)

Table 52. World 9,10-Phenanthredione Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World 9,10-Phenanthredione Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World 9,10-Phenanthredione Production Value by Physical Form, (USD Million), 2021 & 2025 & 2032

Table 55. World 9,10-Phenanthredione Production by Physical Form (2021-2026) & (Tons)

Table 56. World 9,10-Phenanthredione Production by Physical Form (2027-2032) & (Tons)

Table 57. World 9,10-Phenanthredione Production Value by Physical Form (2021-2026) & (USD Million)

Table 58. World 9,10-Phenanthredione Production Value by Physical Form (2027-2032) & (USD Million)

Table 59. World 9,10-Phenanthredione Average Price by Physical Form (2021-2026) & (US\$/Ton)

Table 60. World 9,10-Phenanthredione Average Price by Physical Form (2027-2032) & (US\$/Ton)

Table 61. World 9,10-Phenanthredione Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World 9,10-Phenanthredione Production by Application (2021-2026) & (Tons)

Table 63. World 9,10-Phenanthredione Production by Application (2027-2032) &

(Tons)

Table 64. World 9,10-Phenanthrenedione Production Value by Application (2021-2026) & (USD Million)

Table 65. World 9,10-Phenanthrenedione Production Value by Application (2027-2032) & (USD Million)

Table 66. World 9,10-Phenanthrenedione Average Price by Application (2021-2026) & (US\$/Ton)

Table 67. World 9,10-Phenanthrenedione Average Price by Application (2027-2032) & (US\$/Ton)

Table 68. Thermo Fisher Scientific (USA) Basic Information, Manufacturing Base and Competitors

Table 69. Thermo Fisher Scientific (USA) Major Business

Table 70. Thermo Fisher Scientific (USA) 9,10-Phenanthrenedione Product and Services

Table 71. Thermo Fisher Scientific (USA) 9,10-Phenanthrenedione Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Thermo Fisher Scientific (USA) Recent Developments/Updates

Table 73. Thermo Fisher Scientific (USA) Competitive Strengths & Weaknesses

Table 74. Sigma-Aldrich (USA) Basic Information, Manufacturing Base and Competitors

Table 75. Sigma-Aldrich (USA) Major Business

Table 76. Sigma-Aldrich (USA) 9,10-Phenanthrenedione Product and Services

Table 77. Sigma-Aldrich (USA) 9,10-Phenanthrenedione Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Sigma-Aldrich (USA) Recent Developments/Updates

Table 79. Sigma-Aldrich (USA) Competitive Strengths & Weaknesses

Table 80. Alfa Chemistry (USA) Basic Information, Manufacturing Base and Competitors

Table 81. Alfa Chemistry (USA) Major Business

Table 82. Alfa Chemistry (USA) 9,10-Phenanthrenedione Product and Services

Table 83. Alfa Chemistry (USA) 9,10-Phenanthrenedione Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Alfa Chemistry (USA) Recent Developments/Updates

Table 85. Alfa Chemistry (USA) Competitive Strengths & Weaknesses

Table 86. Tokyo Chemical Industry (Japan) Basic Information, Manufacturing Base and Competitors

Table 87. Tokyo Chemical Industry (Japan) Major Business

Table 88. Tokyo Chemical Industry (Japan) 9,10-Phenanthrene-dione Product and Services

Table 89. Tokyo Chemical Industry (Japan) 9,10-Phenanthrene-dione Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Tokyo Chemical Industry (Japan) Recent Developments/Updates

Table 91. Tokyo Chemical Industry (Japan) Competitive Strengths & Weaknesses

Table 92. FUJIFILM Wako Pure Chemical (Japan) Basic Information, Manufacturing Base and Competitors

Table 93. FUJIFILM Wako Pure Chemical (Japan) Major Business

Table 94. FUJIFILM Wako Pure Chemical (Japan) 9,10-Phenanthrene-dione Product and Services

Table 95. FUJIFILM Wako Pure Chemical (Japan) 9,10-Phenanthrene-dione Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. FUJIFILM Wako Pure Chemical (Japan) Recent Developments/Updates

Table 97. FUJIFILM Wako Pure Chemical (Japan) Competitive Strengths & Weaknesses

Table 98. Amadis Chemical (China) Basic Information, Manufacturing Base and Competitors

Table 99. Amadis Chemical (China) Major Business

Table 100. Amadis Chemical (China) 9,10-Phenanthrene-dione Product and Services

Table 101. Amadis Chemical (China) 9,10-Phenanthrene-dione Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Amadis Chemical (China) Recent Developments/Updates

Table 103. Amadis Chemical (China) Competitive Strengths & Weaknesses

Table 104. BLD Pharmatech (China) Basic Information, Manufacturing Base and Competitors

Table 105. BLD Pharmatech (China) Major Business

Table 106. BLD Pharmatech (China) 9,10-Phenanthrene-dione Product and Services

Table 107. BLD Pharmatech (China) 9,10-Phenanthrene-dione Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. BLD Pharmatech (China) Recent Developments/Updates

Table 109. BLD Pharmatech (China) Competitive Strengths & Weaknesses

Table 110. Shanghai Aladdin Biochemical (China) Basic Information, Manufacturing Base and Competitors

Table 111. Shanghai Aladdin Biochemical (China) Major Business

Table 112. Shanghai Aladdin Biochemical (China) 9,10-Phenanthredione Product and Services

Table 113. Shanghai Aladdin Biochemical (China) 9,10-Phenanthredione Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Shanghai Aladdin Biochemical (China) Recent Developments/Updates

Table 115. Shanghai Aladdin Biochemical (China) Competitive Strengths & Weaknesses

Table 116. Macklin Biochemical (China) Basic Information, Manufacturing Base and Competitors

Table 117. Macklin Biochemical (China) Major Business

Table 118. Macklin Biochemical (China) 9,10-Phenanthredione Product and Services

Table 119. Macklin Biochemical (China) 9,10-Phenanthredione Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Macklin Biochemical (China) Recent Developments/Updates

Table 121. Macklin Biochemical (China) Competitive Strengths & Weaknesses

Table 122. Daejung Chemicals (South Korea) Basic Information, Manufacturing Base and Competitors

Table 123. Daejung Chemicals (South Korea) Major Business

Table 124. Daejung Chemicals (South Korea) 9,10-Phenanthredione Product and Services

Table 125. Daejung Chemicals (South Korea) 9,10-Phenanthredione Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Daejung Chemicals (South Korea) Recent Developments/Updates

Table 127. Daejung Chemicals (South Korea) Competitive Strengths & Weaknesses

Table 128. Global Key Players of 9,10-Phenanthredione Upstream (Raw Materials)

Table 129. Global 9,10-Phenanthredione Typical Customers

Table 130. 9,10-Phenanthredione Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. 9,10-Phenanthrenedione Picture

Figure 2. World 9,10-Phenanthrenedione Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World 9,10-Phenanthrenedione Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World 9,10-Phenanthrenedione Production (2021-2032) & (Tons)

Figure 5. World 9,10-Phenanthrenedione Average Price (2021-2032) & (US\$/Ton)

Figure 6. World 9,10-Phenanthrenedione Production Value Market Share by Region (2021-2032)

Figure 7. World 9,10-Phenanthrenedione Production Market Share by Region (2021-2032)

Figure 8. North America 9,10-Phenanthrenedione Production (2021-2032) & (Tons)

Figure 9. Europe 9,10-Phenanthrenedione Production (2021-2032) & (Tons)

Figure 10. China 9,10-Phenanthrenedione Production (2021-2032) & (Tons)

Figure 11. Japan 9,10-Phenanthrenedione Production (2021-2032) & (Tons)

Figure 12. India 9,10-Phenanthrenedione Production (2021-2032) & (Tons)

Figure 13. Southeast Asia 9,10-Phenanthrenedione Production (2021-2032) & (Tons)

Figure 14. 9,10-Phenanthrenedione Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World 9,10-Phenanthrenedione Consumption (2021-2032) & (Tons)

Figure 17. World 9,10-Phenanthrenedione Consumption Market Share by Region (2021-2032)

Figure 18. United States 9,10-Phenanthrenedione Consumption (2021-2032) & (Tons)

Figure 19. China 9,10-Phenanthrenedione Consumption (2021-2032) & (Tons)

Figure 20. Europe 9,10-Phenanthrenedione Consumption (2021-2032) & (Tons)

Figure 21. Japan 9,10-Phenanthrenedione Consumption (2021-2032) & (Tons)

Figure 22. South Korea 9,10-Phenanthrenedione Consumption (2021-2032) & (Tons)

Figure 23. ASEAN 9,10-Phenanthrenedione Consumption (2021-2032) & (Tons)

Figure 24. India 9,10-Phenanthrenedione Consumption (2021-2032) & (Tons)

Figure 25. Producer Shipments of 9,10-Phenanthrenedione by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for 9,10-Phenanthrenedione Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for 9,10-Phenanthrenedione Markets in 2025

Figure 28. United States VS China: 9,10-Phenanthrenedione Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: 9,10-Phenanthrenedione Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: 9,10-Phenanthrenedione Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers 9,10-Phenanthrenedione Production Market Share 2025

Figure 32. China Based Manufacturers 9,10-Phenanthrenedione Production Market Share 2025

Figure 33. Rest of World Based Manufacturers 9,10-Phenanthrenedione Production Market Share 2025

Figure 34. World 9,10-Phenanthrenedione Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World 9,10-Phenanthrenedione Production Value Market Share by Type in 2025

Figure 36. Industrial Grade (>95%)

Figure 37. High-Purity Grade (>99%)

Figure 38. Ultra-High-Purity Grade (>99.9%)

Figure 39. World 9,10-Phenanthrenedione Production Market Share by Type (2021-2032)

Figure 40. World 9,10-Phenanthrenedione Production Value Market Share by Type (2021-2032)

Figure 41. World 9,10-Phenanthrenedione Average Price by Type (2021-2032) & (US\$/Ton)

Figure 42. World 9,10-Phenanthrenedione Production Value by Physical Form, (USD Million), 2021 & 2025 & 2032

Figure 43. World 9,10-Phenanthrenedione Production Value Market Share by Physical Form in 2025

Figure 44. Crystalline

Figure 45. Powder

Figure 46. Solution

Figure 47. World 9,10-Phenanthrenedione Production Market Share by Physical Form (2021-2032)

Figure 48. World 9,10-Phenanthrenedione Production Value Market Share by Physical Form (2021-2032)

Figure 49. World 9,10-Phenanthrenedione Average Price by Physical Form (2021-2032) & (US\$/Ton)

Figure 50. World 9,10-Phenanthrenedione Production Value by Application, (USD

Million), 2021 & 2025 & 2032

Figure 51. World 9,10-Phenanthredione Production Value Market Share by Application in 2025

Figure 52. Pharmaceutical

Figure 53. Pigment & Coating

Figure 54. Functional Material

Figure 55. Others

Figure 56. World 9,10-Phenanthredione Production Market Share by Application (2021-2032)

Figure 57. World 9,10-Phenanthredione Production Value Market Share by Application (2021-2032)

Figure 58. World 9,10-Phenanthredione Average Price by Application (2021-2032) & (US\$/Ton)

Figure 59. 9,10-Phenanthredione Industry Chain

Figure 60. 9,10-Phenanthredione Procurement Model

Figure 61. 9,10-Phenanthredione Sales Model

Figure 62. 9,10-Phenanthredione Sales Channels, Direct Sales, and Distribution

Figure 63. Methodology

Figure 64. Research Process and Data Source

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