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Global ?-Pinene 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 ?-Pinene market size was valued at US$ 484 million in 2025 and is forecast to a readjusted size of US$ 654 million by 2032 with a CAGR of 4.4% during review period.

?-Pinene is a naturally occurring bicyclic monoterpene hydrocarbon with the molecular formula C??H?? and is one of the most abundant and commercially important terpenes found in nature. It is a major component of turpentine oil and is primarily obtained from the resin and essential oils of coniferous trees, including pine, spruce, and fir species, as well as various aromatic plants such as rosemary and eucalyptus. Industrially, ?-Pinene is produced through gum resin processing, turpentine oil fractionation, and advanced terpene purification technologies. With its characteristic pine-like aroma, high chemical reactivity, and renewable bio-based origin, ?-Pinene is widely used in fragrances, flavors, personal care products, pharmaceutical intermediates, coatings, adhesives, and specialty chemicals. As a key terpene platform molecule, ?-Pinene serves as an important feedstock for producing a wide range of value-added derivatives, including Camphene, Borneol, Camphor, Terpineol, and Limonene. Due to its versatility, renewable sourcing, and broad downstream applications, ?-Pinene plays a critical role in the global terpene, fragrance, and bio-based chemical industries.

The global annual sales volume of ?-pinene is 100,000 tons, with an average selling price of $4,700 per ton and a gross profit margin of 30%.

The ?-Pinene market represents one of the most important segments within the global terpene chemical industry and is expected to maintain steady growth driven by increasing demand for natural ingredients, bio-based chemicals, fragrance applications, and specialty chemical production. As one of the most abundant and commercially

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valuable monoterpenes found in turpentine oil, ?-Pinene serves as a key platform molecule connecting the forest products industry with the fine chemical sector. Its renewable origin, distinctive pine aroma, and versatile chemical reactivity enable broad applications across fragrances, personal care products, pharmaceuticals, coatings, adhesives, and specialty materials. In addition to its direct applications, ?-Pinene is widely used as a feedstock for producing high-value terpene derivatives such as Camphene, Camphor, Borneol, Terpineol, and Limonene, creating significant downstream market opportunities.

In the fragrance and personal care industries, ?-Pinene is valued for its fresh, woody, and resinous aroma characteristics and is widely incorporated into perfumes, air fresheners, household cleaners, cosmetics, and aromatic products. Growing consumer preference for natural, renewable, and environmentally friendly ingredients is further strengthening demand for bio-based ?-Pinene as an alternative to petroleum-derived chemical raw materials. In pharmaceutical and specialty chemical applications, ?-Pinene serves as a versatile intermediate for the synthesis of terpene-based compounds, including camphor and borneol derivatives, supporting the expansion of high-purity and value-added product segments.

From the supply perspective, the ?-Pinene market is closely linked to the global turpentine oil industry and depends on factors such as pine forest resources, forestry management practices, resin production capacity, and regional terpene processing capabilities. Major production regions include China, the United States, Brazil, Portugal, India, and Southeast Asia, where established pine resin industries provide reliable feedstock availability. China has become a significant player in ?-Pinene production due to its large-scale pine resource base and mature forest chemical processing industry. However, raw material price fluctuations, environmental regulations, and variations in natural resin supply remain important factors influencing market dynamics.

Looking ahead, the ?-Pinene market is expected to benefit from the transition toward sustainable chemicals, increasing adoption of renewable raw materials, growth of natural fragrances, and innovation in terpene-derived products. High-purity ?-Pinene, integrated turpentine processing systems, and advanced terpene conversion technologies are expected to create new growth opportunities. With its broad downstream applications and strategic role as a renewable chemical building block, ?-Pinene will continue to be a critical raw material in the global fragrance, specialty chemical, and bio-based materials industries.

Report Scope

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This report is a detailed and comprehensive analysis for global ?-Pinene 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 ?-Pinene market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

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

Global ?-Pinene 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 ?-Pinene 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 ?-Pinene

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 ?-Pinene 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 Kraton, DRT, Grupo Resinas Brasil, Yasuhara Chemical, Resinas Naturales, Privi Organics, Guangdong Tloong Technology, Fujian Nanping Green Pine Chemical, Xiamen Doingcom

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Chemical, Yunnan Linyuan Perfume, etc.

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

Market Segmentation

?-Pinene 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

?95%

<95%

Market segment by Source

Natural ?-Pinene

Synthetic ?-Pinene

Market segment by Technology

Oxidized ?-Pinene

Hydrated ?-Pinene

Market segment by Application

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Aroma Chemicals

Adhesive & Tire Resins

Solvents & Cleaners

Others

Major players covered

Kraton

DRT

Grupo Resinas Brasil

Yasuhara Chemical

Resinas Naturales

Privi Organics

Guangdong Tloong Technology

Fujian Nanping Green Pine Chemical

Xiamen Doingcom Chemical

Yunnan Linyuan Perfume

Foshan Sanshui Jingze Chemical

Wanxiang Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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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)

Chapter Outline

Chapter 1, to describe ?-Pinene product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the ?-Pinene 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 ?-Pinene 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 ?-Pinene.

Chapter 14 and 15, to describe ?-Pinene sales channel, distributors, customers, research findings and conclusion.

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Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope
1.2 Market Estimation Caveats and Base Year
1.3 Market Analysis by Type
  1.3.1 Overview: Global ?-Pinene Consumption Value by Type: 2021 Versus 2025 Versus 2032
  1.3.2 ?95%
  1.3.3 <95%
1.4 Market Analysis by Source
  1.4.1 Overview: Global ?-Pinene Consumption Value by Source: 2021 Versus 2025 Versus 2032
  1.4.2 Natural ?-Pinene
  1.4.3 Synthetic ?-Pinene
1.5 Market Analysis by Technology
  1.5.1 Overview: Global ?-Pinene Consumption Value by Technology: 2021 Versus 2025 Versus 2032
  1.5.2 Oxidized ?-Pinene
  1.5.3 Hydrated ?-Pinene
1.6 Market Analysis by Application
  1.6.1 Overview: Global ?-Pinene Consumption Value by Application: 2021 Versus 2025 Versus 2032
  1.6.2 Aroma Chemicals
  1.6.3 Adhesive & Tire Resins
  1.6.4 Solvents & Cleaners
  1.6.5 Others
1.7 Global ?-Pinene Market Size & Forecast
  1.7.1 Global ?-Pinene Consumption Value (2021 & 2025 & 2032)
  1.7.2 Global ?-Pinene Sales Quantity (2021-2032)
  1.7.3 Global ?-Pinene Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Kraton
  2.1.1 Kraton Details
  2.1.2 Kraton Major Business
  2.1.3 Kraton ?-Pinene Product and Services

+357 96 030922
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2.1.4 Kraton ?-Pinene Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.1.5 Kraton Recent Developments/Updates
2.2 DRT
2.2.1 DRT Details
2.2.2 DRT Major Business
2.2.3 DRT ?-Pinene Product and Services
2.2.4 DRT ?-Pinene Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.2.5 DRT Recent Developments/Updates
2.3 Grupo Resinas Brasil
2.3.1 Grupo Resinas Brasil Details
2.3.2 Grupo Resinas Brasil Major Business
2.3.3 Grupo Resinas Brasil ?-Pinene Product and Services
2.3.4 Grupo Resinas Brasil ?-Pinene Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.3.5 Grupo Resinas Brasil Recent Developments/Updates
2.4 Yasuhara Chemical
2.4.1 Yasuhara Chemical Details
2.4.2 Yasuhara Chemical Major Business
2.4.3 Yasuhara Chemical ?-Pinene Product and Services
2.4.4 Yasuhara Chemical ?-Pinene Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.4.5 Yasuhara Chemical Recent Developments/Updates
2.5 Resinas Naturales
2.5.1 Resinas Naturales Details
2.5.2 Resinas Naturales Major Business
2.5.3 Resinas Naturales ?-Pinene Product and Services
2.5.4 Resinas Naturales ?-Pinene Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.5.5 Resinas Naturales Recent Developments/Updates
2.6 Privi Organics
2.6.1 Privi Organics Details
2.6.2 Privi Organics Major Business
2.6.3 Privi Organics ?-Pinene Product and Services
2.6.4 Privi Organics ?-Pinene Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.6.5 Privi Organics Recent Developments/Updates
2.7 Guangdong Tloong Technology

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info@marketpublishers.com

2.7.1 Guangdong Tloong Technology Details
2.7.2 Guangdong Tloong Technology Major Business
2.7.3 Guangdong Tloong Technology ?-Pinene Product and Services
2.7.4 Guangdong Tloong Technology ?-Pinene Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.7.5 Guangdong Tloong Technology Recent Developments/Updates
2.8 Fujian Nanping Green Pine Chemical
2.8.1 Fujian Nanping Green Pine Chemical Details
2.8.2 Fujian Nanping Green Pine Chemical Major Business
2.8.3 Fujian Nanping Green Pine Chemical ?-Pinene Product and Services
2.8.4 Fujian Nanping Green Pine Chemical ?-Pinene Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.8.5 Fujian Nanping Green Pine Chemical Recent Developments/Updates
2.9 Xiamen Doingcom Chemical
2.9.1 Xiamen Doingcom Chemical Details
2.9.2 Xiamen Doingcom Chemical Major Business
2.9.3 Xiamen Doingcom Chemical ?-Pinene Product and Services
2.9.4 Xiamen Doingcom Chemical ?-Pinene Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.9.5 Xiamen Doingcom Chemical Recent Developments/Updates
2.10 Yunnan Linyuan Perfume
2.10.1 Yunnan Linyuan Perfume Details
2.10.2 Yunnan Linyuan Perfume Major Business
2.10.3 Yunnan Linyuan Perfume ?-Pinene Product and Services
2.10.4 Yunnan Linyuan Perfume ?-Pinene Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.10.5 Yunnan Linyuan Perfume Recent Developments/Updates
2.11 Foshan Sanshui Jingze Chemical
2.11.1 Foshan Sanshui Jingze Chemical Details
2.11.2 Foshan Sanshui Jingze Chemical Major Business
2.11.3 Foshan Sanshui Jingze Chemical ?-Pinene Product and Services
2.11.4 Foshan Sanshui Jingze Chemical ?-Pinene Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.11.5 Foshan Sanshui Jingze Chemical Recent Developments/Updates
2.12 Wanxiang Technology
2.12.1 Wanxiang Technology Details
2.12.2 Wanxiang Technology Major Business
2.12.3 Wanxiang Technology ?-Pinene Product and Services
2.12.4 Wanxiang Technology ?-Pinene Sales Quantity, Average Price, Revenue,

+357 96 030922
info@marketpublishers.com

Gross Margin and Market Share (2021-2026)
2.12.5 Wanxiang Technology Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: ?-PINENE BY MANUFACTURER

3.1 Global ?-Pinene Sales Quantity by Manufacturer (2021-2026)
3.2 Global ?-Pinene Revenue by Manufacturer (2021-2026)
3.3 Global ?-Pinene Average Price by Manufacturer (2021-2026)
3.4 Market Share Analysis (2025)
3.4.1 Producer Shipments of ?-Pinene by Manufacturer Revenue ($MM) and Market Share (%): 2025
3.4.2 Top 3 ?-Pinene Manufacturer Market Share in 2025
3.4.3 Top 6 ?-Pinene Manufacturer Market Share in 2025
3.5 ?-Pinene Market: Overall Company Footprint Analysis
3.5.1 ?-Pinene Market: Region Footprint
3.5.2 ?-Pinene Market: Company Product Type Footprint
3.5.3 ?-Pinene Market: Company Product Application Footprint
3.6 New Market Entrants and Barriers to Market Entry
3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global ?-Pinene Market Size by Region
4.1.1 Global ?-Pinene Sales Quantity by Region (2021-2032)
4.1.2 Global ?-Pinene Consumption Value by Region (2021-2032)
4.1.3 Global ?-Pinene Average Price by Region (2021-2032)
4.2 North America ?-Pinene Consumption Value (2021-2032)
4.3 Europe ?-Pinene Consumption Value (2021-2032)
4.4 Asia-Pacific ?-Pinene Consumption Value (2021-2032)
4.5 South America ?-Pinene Consumption Value (2021-2032)
4.6 Middle East & Africa ?-Pinene Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global ?-Pinene Sales Quantity by Type (2021-2032)
5.2 Global ?-Pinene Consumption Value by Type (2021-2032)
5.3 Global ?-Pinene Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

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6.1 Global ?-Pinene Sales Quantity by Application (2021-2032)
6.2 Global ?-Pinene Consumption Value by Application (2021-2032)
6.3 Global ?-Pinene Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America ?-Pinene Sales Quantity by Type (2021-2032)
7.2 North America ?-Pinene Sales Quantity by Application (2021-2032)
7.3 North America ?-Pinene Market Size by Country
  7.3.1 North America ?-Pinene Sales Quantity by Country (2021-2032)
  7.3.2 North America ?-Pinene Consumption Value by Country (2021-2032)
  7.3.3 United States Market Size and Forecast (2021-2032)
  7.3.4 Canada Market Size and Forecast (2021-2032)
  7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe ?-Pinene Sales Quantity by Type (2021-2032)
8.2 Europe ?-Pinene Sales Quantity by Application (2021-2032)
8.3 Europe ?-Pinene Market Size by Country
  8.3.1 Europe ?-Pinene Sales Quantity by Country (2021-2032)
  8.3.2 Europe ?-Pinene Consumption Value by Country (2021-2032)
  8.3.3 Germany Market Size and Forecast (2021-2032)
  8.3.4 France Market Size and Forecast (2021-2032)
  8.3.5 United Kingdom Market Size and Forecast (2021-2032)
  8.3.6 Russia Market Size and Forecast (2021-2032)
  8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific ?-Pinene Sales Quantity by Type (2021-2032)
9.2 Asia-Pacific ?-Pinene Sales Quantity by Application (2021-2032)
9.3 Asia-Pacific ?-Pinene Market Size by Region
  9.3.1 Asia-Pacific ?-Pinene Sales Quantity by Region (2021-2032)
  9.3.2 Asia-Pacific ?-Pinene Consumption Value by Region (2021-2032)
  9.3.3 China Market Size and Forecast (2021-2032)
  9.3.4 Japan Market Size and Forecast (2021-2032)
  9.3.5 South Korea Market Size and Forecast (2021-2032)

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9.3.6 India Market Size and Forecast (2021-2032)
9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America ?-Pinene Sales Quantity by Type (2021-2032)
10.2 South America ?-Pinene Sales Quantity by Application (2021-2032)
10.3 South America ?-Pinene Market Size by Country
10.3.1 South America ?-Pinene Sales Quantity by Country (2021-2032)
10.3.2 South America ?-Pinene Consumption Value by Country (2021-2032)
10.3.3 Brazil Market Size and Forecast (2021-2032)
10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa ?-Pinene Sales Quantity by Type (2021-2032)
11.2 Middle East & Africa ?-Pinene Sales Quantity by Application (2021-2032)
11.3 Middle East & Africa ?-Pinene Market Size by Country
11.3.1 Middle East & Africa ?-Pinene Sales Quantity by Country (2021-2032)
11.3.2 Middle East & Africa ?-Pinene Consumption Value by Country (2021-2032)
11.3.3 Turkey Market Size and Forecast (2021-2032)
11.3.4 Egypt Market Size and Forecast (2021-2032)
11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 ?-Pinene Market Drivers
12.2 ?-Pinene Market Restraints
12.3 ?-Pinene Trends Analysis
12.4 Porters Five Forces Analysis
12.4.1 Threat of New Entrants
12.4.2 Bargaining Power of Suppliers
12.4.3 Bargaining Power of Buyers
12.4.4 Threat of Substitutes
12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

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13.1 Raw Material of ?-Pinene and Key Manufacturers
13.2 Manufacturing Costs Percentage of ?-Pinene
13.3 ?-Pinene Production Process
13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel
  14.1.1 Direct to End-User
  14.1.2 Distributors
14.2 ?-Pinene Typical Distributors
14.3 ?-Pinene Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology
16.2 Research Process and Data Source
16.3 Disclaimer

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List Of Tables

LIST OF TABLES

Table 1. Global ?-Pinene Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
Table 2. Global ?-Pinene Consumption Value by Source, (USD Million), 2021 & 2025 & 2032
Table 3. Global ?-Pinene Consumption Value by Technology, (USD Million), 2021 & 2025 & 2032
Table 4. Global ?-Pinene Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Table 5. Kraton Basic Information, Manufacturing Base and Competitors
Table 6. Kraton Major Business
Table 7. Kraton ?-Pinene Product and Services
Table 8. Kraton ?-Pinene Sales Quantity (Tons), Average Price (US$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 9. Kraton Recent Developments/Updates
Table 10. DRT Basic Information, Manufacturing Base and Competitors
Table 11. DRT Major Business
Table 12. DRT ?-Pinene Product and Services
Table 13. DRT ?-Pinene Sales Quantity (Tons), Average Price (US$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 14. DRT Recent Developments/Updates
Table 15. Grupo Resinas Brasil Basic Information, Manufacturing Base and Competitors
Table 16. Grupo Resinas Brasil Major Business
Table 17. Grupo Resinas Brasil ?-Pinene Product and Services
Table 18. Grupo Resinas Brasil ?-Pinene Sales Quantity (Tons), Average Price (US$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 19. Grupo Resinas Brasil Recent Developments/Updates
Table 20. Yasuhara Chemical Basic Information, Manufacturing Base and Competitors
Table 21. Yasuhara Chemical Major Business
Table 22. Yasuhara Chemical ?-Pinene Product and Services
Table 23. Yasuhara Chemical ?-Pinene Sales Quantity (Tons), Average Price (US$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 24. Yasuhara Chemical Recent Developments/Updates
Table 25. Resinas Naturales Basic Information, Manufacturing Base and Competitors
Table 26. Resinas Naturales Major Business
Table 27. Resinas Naturales ?-Pinene Product and Services

+357 96 030922
info@marketpublishers.com

Table 28. Resinas Naturales ?-Pinene Sales Quantity (Tons), Average Price (US$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 29. Resinas Naturales Recent Developments/Updates
Table 30. Privi Organics Basic Information, Manufacturing Base and Competitors
Table 31. Privi Organics Major Business
Table 32. Privi Organics ?-Pinene Product and Services
Table 33. Privi Organics ?-Pinene Sales Quantity (Tons), Average Price (US$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 34. Privi Organics Recent Developments/Updates
Table 35. Guangdong Tloong Technology Basic Information, Manufacturing Base and Competitors
Table 36. Guangdong Tloong Technology Major Business
Table 37. Guangdong Tloong Technology ?-Pinene Product and Services
Table 38. Guangdong Tloong Technology ?-Pinene Sales Quantity (Tons), Average Price (US$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 39. Guangdong Tloong Technology Recent Developments/Updates
Table 40. Fujian Nanping Green Pine Chemical Basic Information, Manufacturing Base and Competitors
Table 41. Fujian Nanping Green Pine Chemical Major Business
Table 42. Fujian Nanping Green Pine Chemical ?-Pinene Product and Services
Table 43. Fujian Nanping Green Pine Chemical ?-Pinene Sales Quantity (Tons), Average Price (US$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 44. Fujian Nanping Green Pine Chemical Recent Developments/Updates
Table 45. Xiamen Doingcom Chemical Basic Information, Manufacturing Base and Competitors
Table 46. Xiamen Doingcom Chemical Major Business
Table 47. Xiamen Doingcom Chemical ?-Pinene Product and Services
Table 48. Xiamen Doingcom Chemical ?-Pinene Sales Quantity (Tons), Average Price (US$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 49. Xiamen Doingcom Chemical Recent Developments/Updates
Table 50. Yunnan Linyuan Perfume Basic Information, Manufacturing Base and Competitors
Table 51. Yunnan Linyuan Perfume Major Business
Table 52. Yunnan Linyuan Perfume ?-Pinene Product and Services
Table 53. Yunnan Linyuan Perfume ?-Pinene Sales Quantity (Tons), Average Price (US$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 54. Yunnan Linyuan Perfume Recent Developments/Updates
Table 55. Foshan Sanshui Jingze Chemical Basic Information, Manufacturing Base and

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Competitors
Table 56. Foshan Sanshui Jingze Chemical Major Business
Table 57. Foshan Sanshui Jingze Chemical ?-Pinene Product and Services
Table 58. Foshan Sanshui Jingze Chemical ?-Pinene Sales Quantity (Tons), Average Price (US$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 59. Foshan Sanshui Jingze Chemical Recent Developments/Updates
Table 60. Wanxiang Technology Basic Information, Manufacturing Base and Competitors
Table 61. Wanxiang Technology Major Business
Table 62. Wanxiang Technology ?-Pinene Product and Services
Table 63. Wanxiang Technology ?-Pinene Sales Quantity (Tons), Average Price (US$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 64. Wanxiang Technology Recent Developments/Updates
Table 65. Global ?-Pinene Sales Quantity by Manufacturer (2021-2026) & (Tons)
Table 66. Global ?-Pinene Revenue by Manufacturer (2021-2026) & (USD Million)
Table 67. Global ?-Pinene Average Price by Manufacturer (2021-2026) & (US$/Ton)
Table 68. Market Position of Manufacturers in ?-Pinene, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 69. Head Office and ?-Pinene Production Site of Key Manufacturer
Table 70. ?-Pinene Market: Company Product Type Footprint
Table 71. ?-Pinene Market: Company Product Application Footprint
Table 72. ?-Pinene New Market Entrants and Barriers to Market Entry
Table 73. ?-Pinene Mergers, Acquisition, Agreements, and Collaborations
Table 74. Global ?-Pinene Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 75. Global ?-Pinene Sales Quantity by Region (2021-2026) & (Tons)
Table 76. Global ?-Pinene Sales Quantity by Region (2027-2032) & (Tons)
Table 77. Global ?-Pinene Consumption Value by Region (2021-2026) & (USD Million)
Table 78. Global ?-Pinene Consumption Value by Region (2027-2032) & (USD Million)
Table 79. Global ?-Pinene Average Price by Region (2021-2026) & (US$/Ton)
Table 80. Global ?-Pinene Average Price by Region (2027-2032) & (US$/Ton)
Table 81. Global ?-Pinene Sales Quantity by Type (2021-2026) & (Tons)
Table 82. Global ?-Pinene Sales Quantity by Type (2027-2032) & (Tons)
Table 83. Global ?-Pinene Consumption Value by Type (2021-2026) & (USD Million)
Table 84. Global ?-Pinene Consumption Value by Type (2027-2032) & (USD Million)
Table 85. Global ?-Pinene Average Price by Type (2021-2026) & (US$/Ton)
Table 86. Global ?-Pinene Average Price by Type (2027-2032) & (US$/Ton)
Table 87. Global ?-Pinene Sales Quantity by Application (2021-2026) & (Tons)
Table 88. Global ?-Pinene Sales Quantity by Application (2027-2032) & (Tons)

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Table 89. Global ?-Pinene Consumption Value by Application (2021-2026) & (USD Million)
Table 90. Global ?-Pinene Consumption Value by Application (2027-2032) & (USD Million)
Table 91. Global ?-Pinene Average Price by Application (2021-2026) & (US$/Ton)
Table 92. Global ?-Pinene Average Price by Application (2027-2032) & (US$/Ton)
Table 93. North America ?-Pinene Sales Quantity by Type (2021-2026) & (Tons)
Table 94. North America ?-Pinene Sales Quantity by Type (2027-2032) & (Tons)
Table 95. North America ?-Pinene Sales Quantity by Application (2021-2026) & (Tons)
Table 96. North America ?-Pinene Sales Quantity by Application (2027-2032) & (Tons)
Table 97. North America ?-Pinene Sales Quantity by Country (2021-2026) & (Tons)
Table 98. North America ?-Pinene Sales Quantity by Country (2027-2032) & (Tons)
Table 99. North America ?-Pinene Consumption Value by Country (2021-2026) & (USD Million)
Table 100. North America ?-Pinene Consumption Value by Country (2027-2032) & (USD Million)
Table 101. Europe ?-Pinene Sales Quantity by Type (2021-2026) & (Tons)
Table 102. Europe ?-Pinene Sales Quantity by Type (2027-2032) & (Tons)
Table 103. Europe ?-Pinene Sales Quantity by Application (2021-2026) & (Tons)
Table 104. Europe ?-Pinene Sales Quantity by Application (2027-2032) & (Tons)
Table 105. Europe ?-Pinene Sales Quantity by Country (2021-2026) & (Tons)
Table 106. Europe ?-Pinene Sales Quantity by Country (2027-2032) & (Tons)
Table 107. Europe ?-Pinene Consumption Value by Country (2021-2026) & (USD Million)
Table 108. Europe ?-Pinene Consumption Value by Country (2027-2032) & (USD Million)
Table 109. Asia-Pacific ?-Pinene Sales Quantity by Type (2021-2026) & (Tons)
Table 110. Asia-Pacific ?-Pinene Sales Quantity by Type (2027-2032) & (Tons)
Table 111. Asia-Pacific ?-Pinene Sales Quantity by Application (2021-2026) & (Tons)
Table 112. Asia-Pacific ?-Pinene Sales Quantity by Application (2027-2032) & (Tons)
Table 113. Asia-Pacific ?-Pinene Sales Quantity by Region (2021-2026) & (Tons)
Table 114. Asia-Pacific ?-Pinene Sales Quantity by Region (2027-2032) & (Tons)
Table 115. Asia-Pacific ?-Pinene Consumption Value by Region (2021-2026) & (USD Million)
Table 116. Asia-Pacific ?-Pinene Consumption Value by Region (2027-2032) & (USD Million)
Table 117. South America ?-Pinene Sales Quantity by Type (2021-2026) & (Tons)
Table 118. South America ?-Pinene Sales Quantity by Type (2027-2032) & (Tons)
Table 119. South America ?-Pinene Sales Quantity by Application (2021-2026) & (Tons)

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Table 120. South America ?-Pinene Sales Quantity by Application (2027-2032) & (Tons)
Table 121. South America ?-Pinene Sales Quantity by Country (2021-2026) & (Tons)
Table 122. South America ?-Pinene Sales Quantity by Country (2027-2032) & (Tons)
Table 123. South America ?-Pinene Consumption Value by Country (2021-2026) & (USD Million)
Table 124. South America ?-Pinene Consumption Value by Country (2027-2032) & (USD Million)
Table 125. Middle East & Africa ?-Pinene Sales Quantity by Type (2021-2026) & (Tons)
Table 126. Middle East & Africa ?-Pinene Sales Quantity by Type (2027-2032) & (Tons)
Table 127. Middle East & Africa ?-Pinene Sales Quantity by Application (2021-2026) & (Tons)
Table 128. Middle East & Africa ?-Pinene Sales Quantity by Application (2027-2032) & (Tons)
Table 129. Middle East & Africa ?-Pinene Sales Quantity by Country (2021-2026) & (Tons)
Table 130. Middle East & Africa ?-Pinene Sales Quantity by Country (2027-2032) & (Tons)
Table 131. Middle East & Africa ?-Pinene Consumption Value by Country (2021-2026) & (USD Million)
Table 132. Middle East & Africa ?-Pinene Consumption Value by Country (2027-2032) & (USD Million)
Table 133. ?-Pinene Raw Material
Table 134. Key Manufacturers of ?-Pinene Raw Materials
Table 135. ?-Pinene Typical Distributors
Table 136. ?-Pinene Typical Customers

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List Of Figures

LIST OF FIGURES

Figure 1. ?-Pinene Picture
Figure 2. Global ?-Pinene Revenue by Type, (USD Million), 2021 & 2025 & 2032
Figure 3. Global ?-Pinene Revenue Market Share by Type in 2025
Figure 4. ?95% Examples
Figure 5. <95% Examples
Figure 6. Global ?-Pinene Revenue by Source, (USD Million), 2021 & 2025 & 2032
Figure 7. Global ?-Pinene Revenue Market Share by Source in 2025
Figure 8. Natural ?-Pinene Examples
Figure 9. Synthetic ?-Pinene Examples
Figure 10. Global ?-Pinene Revenue by Technology, (USD Million), 2021 & 2025 & 2032
Figure 11. Global ?-Pinene Revenue Market Share by Technology in 2025
Figure 12. Oxidized ?-Pinene Examples
Figure 13. Hydrated ?-Pinene Examples
Figure 14. Global ?-Pinene Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 15. Global ?-Pinene Revenue Market Share by Application in 2025
Figure 16. Aroma Chemicals Examples
Figure 17. Adhesive & Tire Resins Examples
Figure 18. Solvents & Cleaners Examples
Figure 19. Others Examples
Figure 20. Global ?-Pinene Consumption Value, (USD Million): 2021 & 2025 & 2032
Figure 21. Global ?-Pinene Consumption Value and Forecast (2021-2032) & (USD Million)
Figure 22. Global ?-Pinene Sales Quantity (2021-2032) & (Tons)
Figure 23. Global ?-Pinene Price (2021-2032) & (US$/Ton)
Figure 24. Global ?-Pinene Sales Quantity Market Share by Manufacturer in 2025
Figure 25. Global ?-Pinene Revenue Market Share by Manufacturer in 2025
Figure 26. Producer Shipments of ?-Pinene by Manufacturer Sales ($MM) and Market Share (%): 2025
Figure 27. Top 3 ?-Pinene Manufacturer (Revenue) Market Share in 2025
Figure 28. Top 6 ?-Pinene Manufacturer (Revenue) Market Share in 2025
Figure 29. Global ?-Pinene Sales Quantity Market Share by Region (2021-2032)
Figure 30. Global ?-Pinene Consumption Value Market Share by Region (2021-2032)
Figure 31. North America ?-Pinene Consumption Value (2021-2032) & (USD Million)

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Figure 32. Europe ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 33. Asia-Pacific ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 34. South America ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 35. Middle East & Africa ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 36. Global ?-Pinene Sales Quantity Market Share by Type (2021-2032)
Figure 37. Global ?-Pinene Consumption Value Market Share by Type (2021-2032)
Figure 38. Global ?-Pinene Average Price by Type (2021-2032) & (US$/Ton)
Figure 39. Global ?-Pinene Sales Quantity Market Share by Application (2021-2032)
Figure 40. Global ?-Pinene Revenue Market Share by Application (2021-2032)
Figure 41. Global ?-Pinene Average Price by Application (2021-2032) & (US$/Ton)
Figure 42. North America ?-Pinene Sales Quantity Market Share by Type (2021-2032)
Figure 43. North America ?-Pinene Sales Quantity Market Share by Application (2021-2032)
Figure 44. North America ?-Pinene Sales Quantity Market Share by Country (2021-2032)
Figure 45. North America ?-Pinene Consumption Value Market Share by Country (2021-2032)
Figure 46. United States ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 47. Canada ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 48. Mexico ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 49. Europe ?-Pinene Sales Quantity Market Share by Type (2021-2032)
Figure 50. Europe ?-Pinene Sales Quantity Market Share by Application (2021-2032)
Figure 51. Europe ?-Pinene Sales Quantity Market Share by Country (2021-2032)
Figure 52. Europe ?-Pinene Consumption Value Market Share by Country (2021-2032)
Figure 53. Germany ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 54. France ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 55. United Kingdom ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 56. Russia ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 57. Italy ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 58. Asia-Pacific ?-Pinene Sales Quantity Market Share by Type (2021-2032)
Figure 59. Asia-Pacific ?-Pinene Sales Quantity Market Share by Application (2021-2032)
Figure 60. Asia-Pacific ?-Pinene Sales Quantity Market Share by Region (2021-2032)
Figure 61. Asia-Pacific ?-Pinene Consumption Value Market Share by Region (2021-2032)
Figure 62. China ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 63. Japan ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 64. South Korea ?-Pinene Consumption Value (2021-2032) & (USD Million)

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Figure 65. India ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 66. Southeast Asia ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 67. Australia ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 68. South America ?-Pinene Sales Quantity Market Share by Type (2021-2032)
Figure 69. South America ?-Pinene Sales Quantity Market Share by Application (2021-2032)
Figure 70. South America ?-Pinene Sales Quantity Market Share by Country (2021-2032)
Figure 71. South America ?-Pinene Consumption Value Market Share by Country (2021-2032)
Figure 72. Brazil ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 73. Argentina ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 74. Middle East & Africa ?-Pinene Sales Quantity Market Share by Type (2021-2032)
Figure 75. Middle East & Africa ?-Pinene Sales Quantity Market Share by Application (2021-2032)
Figure 76. Middle East & Africa ?-Pinene Sales Quantity Market Share by Country (2021-2032)
Figure 77. Middle East & Africa ?-Pinene Consumption Value Market Share by Country (2021-2032)
Figure 78. Turkey ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 79. Egypt ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 80. Saudi Arabia ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 81. South Africa ?-Pinene Consumption Value (2021-2032) & (USD Million)
Figure 82. ?-Pinene Market Drivers
Figure 83. ?-Pinene Market Restraints
Figure 84. ?-Pinene Market Trends
Figure 85. Porters Five Forces Analysis
Figure 86. Manufacturing Cost Structure Analysis of ?-Pinene in 2025
Figure 87. Manufacturing Process Analysis of ?-Pinene
Figure 88. ?-Pinene Industrial Chain
Figure 89. Sales Channel: Direct to End-User vs Distributors
Figure 90. Direct Channel Pros & Cons
Figure 91. Indirect Channel Pros & Cons
Figure 92. Methodology
Figure 93. Research Process and Data Source

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