

Global 4-Oxoisophorone 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 4-Oxoisophorone market size was valued at US\$ 7.92 million in 2025 and is forecast to a readjusted size of US\$ 12.04 million by 2032 with a CAGR of 5.3% during review period.

In 2025, global 4-Oxoisophorone capacity 300 Tons, sales reached approximately 274 Tons, with an average market price of around 28 USD/Kg, industrial gross margin 23%.

4-Oxoisophorone (aka ketoisophorone; CAS 1125-21-9) is a cyclic enedione that behaves like a classic “process-critical intermediate.” In flavors and fragrances, 4-Oxoisophorone shows up in tobacco/saffron-type odor spaces; in fine chemicals, it links the isophorone/?-isophorone platform to higher-value downstream chemistry. What makes the 4-Oxoisophorone market interesting is that it is often bought for what it enables (yield, impurity control, odor consistency, downstream selectivity), not just for commodity availability.

Commercially, 4-Oxoisophorone is typically defined by assay (GC), color/odor consistency, and a tight impurity profile that protects downstream transformations and fragrance stability. Reference safety and property documentation commonly cites a freezing point around 24 °C and a boiling point around 222 °C, with storage practices emphasizing light protection and tight sealing (often under inert conditions). On compliance, public product documentation flags skin sensitization classification (Skin Sens. 1 / H317), which directly impacts EHS handling and customer qualification workflows.

The mainstream chain can be summarized as acetone condensation > isophorone

family > ?-isophorone > selective oxidation to 4-Oxoisophorone > purification. Recent “big events” in this niche are less about headline capacity and more about patent-backed process upgrades: disclosed routes show gas-liquid oxidation concepts aiming to suppress by-products (e.g., targeting lower acetone in the reaction liquor), and an engineered tower-reactor approach for continuous 4-Oxoisophorone production that was granted in 2024. Upstream, ?-isophorone continuous production IP granted in 2025 signals that the platform is being hardened for stable, repeatable supply—an important de-risking step for 4-Oxoisophorone buyers.

Public “transaction breadcrumbs” often appear as formula-driven tenders rather than spot quotes. A July 14, 2025 electronic bidding notice for flavor & fragrance raw materials lists “tea-flavor ketone / 4-Oxoisophorone” as the first line item, with a quantity field of 585.00 (unit per tender document), illustrating the prevailing buy-side pattern: defined specs + batch governance. Looking ahead, the growth pockets for 4-Oxoisophorone are tied to (1) tighter impurity/traceability demands in fine-chemical chains, (2) higher odor consistency and documentation requirements in flavors & fragrances, and (3) a clear process direction toward safer oxidation, solvent/catalyst optimization, and continuous production. In other words, 4-Oxoisophorone competitiveness will be increasingly decided by engineering control over impurity spectra, safety, and reproducibility—more “plant capability” than “trading leverage.”

This report is a detailed and comprehensive analysis for global 4-Oxoisophorone 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 4-Oxoisophorone market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global 4-Oxoisophorone market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global 4-Oxoisophorone market size and forecasts, by Type and by Application, in

consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global 4-Oxoisophorone market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 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 4-Oxoisophorone
- 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 4-Oxoisophorone 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 Huateng Pharma, Hangzhou Keying Chem, etc.

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

Market Segmentation

4-Oxoisophorone 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

?99%

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 4-Oxoisophorone Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 99%

1.3.3

List Of Tables

LIST OF TABLES

Table 1. Global 4-Oxoisophorone Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global 4-Oxoisophorone Consumption Value by Purity, (USD Million), 2021 & 2025 & 2032

Table 3. Global 4-Oxoisophorone Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. Huateng Pharma Basic Information, Manufacturing Base and Competitors

Table 5. Huateng Pharma Major Business

Table 6. Huateng Pharma 4-Oxoisophorone Product and Services

Table 7. Huateng Pharma 4-Oxoisophorone Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. Huateng Pharma Recent Developments/Updates

Table 9. Hangzhou Keying Chem Basic Information, Manufacturing Base and Competitors

Table 10. Hangzhou Keying Chem Major Business

Table 11. Hangzhou Keying Chem 4-Oxoisophorone Product and Services

Table 12. Hangzhou Keying Chem 4-Oxoisophorone Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. Hangzhou Keying Chem Recent Developments/Updates

Table 14. Global 4-Oxoisophorone Sales Quantity by Manufacturer (2021-2026) & (Tons)

Table 15. Global 4-Oxoisophorone Revenue by Manufacturer (2021-2026) & (USD Million)

Table 16. Global 4-Oxoisophorone Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 17. Market Position of Manufacturers in 4-Oxoisophorone, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 18. Head Office and 4-Oxoisophorone Production Site of Key Manufacturer

Table 19. 4-Oxoisophorone Market: Company Product Type Footprint

Table 20. 4-Oxoisophorone Market: Company Product Application Footprint

Table 21. 4-Oxoisophorone New Market Entrants and Barriers to Market Entry

Table 22. 4-Oxoisophorone Mergers, Acquisition, Agreements, and Collaborations

Table 23. Global 4-Oxoisophorone Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 24. Global 4-Oxoisophorone Sales Quantity by Region (2021-2026) & (Tons)

Table 25. Global 4-Oxoisophorone Sales Quantity by Region (2027-2032) & (Tons)

Table 26. Global 4-Oxoisophorone Consumption Value by Region (2021-2026) & (USD Million)

Table 27. Global 4-Oxoisophorone Consumption Value by Region (2027-2032) & (USD Million)

Table 28. Global 4-Oxoisophorone Average Price by Region (2021-2026) & (US\$/kg)

Table 29. Global 4-Oxoisophorone Average Price by Region (2027-2032) & (US\$/kg)

Table 30. Global 4-Oxoisophorone Sales Quantity by Type (2021-2026) & (Tons)

Table 31. Global 4-Oxoisophorone Sales Quantity by Type (2027-2032) & (Tons)

Table 32. Global 4-Oxoisophorone Consumption Value by Type (2021-2026) & (USD Million)

Table 33. Global 4-Oxoisophorone Consumption Value by Type (2027-2032) & (USD Million)

Table 34. Global 4-Oxoisophorone Average Price by Type (2021-2026) & (US\$/kg)

Table 35. Global 4-Oxoisophorone Average Price by Type (2027-2032) & (US\$/kg)

Table 36. Global 4-Oxoisophorone Sales Quantity by Application (2021-2026) & (Tons)

Table 37. Global 4-Oxoisophorone Sales Quantity by Application (2027-2032) & (Tons)

Table 38. Global 4-Oxoisophorone Consumption Value by Application (2021-2026) & (USD Million)

Table 39. Global 4-Oxoisophorone Consumption Value by Application (2027-2032) & (USD Million)

Table 40. Global 4-Oxoisophorone Average Price by Application (2021-2026) & (US\$/kg)

Table 41. Global 4-Oxoisophorone Average Price by Application (2027-2032) & (US\$/kg)

Table 42. North America 4-Oxoisophorone Sales Quantity by Type (2021-2026) & (Tons)

Table 43. North America 4-Oxoisophorone Sales Quantity by Type (2027-2032) & (Tons)

Table 44. North America 4-Oxoisophorone Sales Quantity by Application (2021-2026) & (Tons)

Table 45. North America 4-Oxoisophorone Sales Quantity by Application (2027-2032) & (Tons)

Table 46. North America 4-Oxoisophorone Sales Quantity by Country (2021-2026) & (Tons)

Table 47. North America 4-Oxoisophorone Sales Quantity by Country (2027-2032) & (Tons)

Table 48. North America 4-Oxoisophorone Consumption Value by Country (2021-2026) & (USD Million)

- Table 49. North America 4-Oxoisophorone Consumption Value by Country (2027-2032) & (USD Million)
- Table 50. Europe 4-Oxoisophorone Sales Quantity by Type (2021-2026) & (Tons)
- Table 51. Europe 4-Oxoisophorone Sales Quantity by Type (2027-2032) & (Tons)
- Table 52. Europe 4-Oxoisophorone Sales Quantity by Application (2021-2026) & (Tons)
- Table 53. Europe 4-Oxoisophorone Sales Quantity by Application (2027-2032) & (Tons)
- Table 54. Europe 4-Oxoisophorone Sales Quantity by Country (2021-2026) & (Tons)
- Table 55. Europe 4-Oxoisophorone Sales Quantity by Country (2027-2032) & (Tons)
- Table 56. Europe 4-Oxoisophorone Consumption Value by Country (2021-2026) & (USD Million)
- Table 57. Europe 4-Oxoisophorone Consumption Value by Country (2027-2032) & (USD Million)
- Table 58. Asia-Pacific 4-Oxoisophorone Sales Quantity by Type (2021-2026) & (Tons)
- Table 59. Asia-Pacific 4-Oxoisophorone Sales Quantity by Type (2027-2032) & (Tons)
- Table 60. Asia-Pacific 4-Oxoisophorone Sales Quantity by Application (2021-2026) & (Tons)
- Table 61. Asia-Pacific 4-Oxoisophorone Sales Quantity by Application (2027-2032) & (Tons)
- Table 62. Asia-Pacific 4-Oxoisophorone Sales Quantity by Region (2021-2026) & (Tons)
- Table 63. Asia-Pacific 4-Oxoisophorone Sales Quantity by Region (2027-2032) & (Tons)
- Table 64. Asia-Pacific 4-Oxoisophorone Consumption Value by Region (2021-2026) & (USD Million)
- Table 65. Asia-Pacific 4-Oxoisophorone Consumption Value by Region (2027-2032) & (USD Million)
- Table 66. South America 4-Oxoisophorone Sales Quantity by Type (2021-2026) & (Tons)
- Table 67. South America 4-Oxoisophorone Sales Quantity by Type (2027-2032) & (Tons)
- Table 68. South America 4-Oxoisophorone Sales Quantity by Application (2021-2026) & (Tons)
- Table 69. South America 4-Oxoisophorone Sales Quantity by Application (2027-2032) & (Tons)
- Table 70. South America 4-Oxoisophorone Sales Quantity by Country (2021-2026) & (Tons)
- Table 71. South America 4-Oxoisophorone Sales Quantity by Country (2027-2032) & (Tons)
- Table 72. South America 4-Oxoisophorone Consumption Value by Country (2021-2026)

& (USD Million)

Table 73. South America 4-Oxoisophorone Consumption Value by Country (2027-2032)

& (USD Million)

Table 74. Middle East & Africa 4-Oxoisophorone Sales Quantity by Type (2021-2026) & (Tons)

Table 75. Middle East & Africa 4-Oxoisophorone Sales Quantity by Type (2027-2032) & (Tons)

Table 76. Middle East & Africa 4-Oxoisophorone Sales Quantity by Application (2021-2026) & (Tons)

Table 77. Middle East & Africa 4-Oxoisophorone Sales Quantity by Application (2027-2032) & (Tons)

Table 78. Middle East & Africa 4-Oxoisophorone Sales Quantity by Country (2021-2026) & (Tons)

Table 79. Middle East & Africa 4-Oxoisophorone Sales Quantity by Country (2027-2032) & (Tons)

Table 80. Middle East & Africa 4-Oxoisophorone Consumption Value by Country (2021-2026) & (USD Million)

Table 81. Middle East & Africa 4-Oxoisophorone Consumption Value by Country (2027-2032) & (USD Million)

Table 82. 4-Oxoisophorone Raw Material

Table 83. Key Manufacturers of 4-Oxoisophorone Raw Materials

Table 84. 4-Oxoisophorone Typical Distributors

Table 85. 4-Oxoisophorone Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. 4-Oxoisophorone Picture

Figure 2. Global 4-Oxoisophorone Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global 4-Oxoisophorone Revenue Market Share by Type in 2025

Figure 4. 99% Examples

Figure 5.

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