

# Global 4-Oxoisophorone Market Growth 2026-2032

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## Abstracts

The global 4-Oxoisophorone market size is predicted to grow from US\$ 7.53 million in 2025 to US\$ 11.67 million in 2032; it is expected to grow at a CAGR of 5.6% from 2026 to 2032.

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,  $\gamma$ -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.”

LP Information, Inc. (LPI) ' newest research report, the “4-Oxoisophorone Industry Forecast” looks at past sales and reviews total world 4-Oxoisophorone sales in 2025, providing a comprehensive analysis by region and market sector of projected 4-Oxoisophorone sales for 2026 through 2032. With 4-Oxoisophorone sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 4-Oxoisophorone industry.

This Insight Report provides a comprehensive analysis of the global 4-Oxoisophorone landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 4-Oxoisophorone portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 4-Oxoisophorone market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 4-Oxoisophorone and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 4-Oxoisophorone.

This report presents a comprehensive overview, market shares, and growth opportunities of 4-Oxoisophorone market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

?99%

## Contents

### **1 SCOPE OF THE REPORT**

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### **2 EXECUTIVE SUMMARY**

#### 2.1 World Market Overview

- 2.1.1 Global 4-Oxoisophorone Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for 4-Oxoisophorone by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for 4-Oxoisophorone by Country/Region, 2021, 2025 & 2032

#### 2.2 4-Oxoisophorone Segment by Type

- 2.2.1 99%
- 2.2.2

## List Of Tables

### LIST OF TABLES

Table 1. 4-Oxoisophorone Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. 4-Oxoisophorone Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of 99%

Table 4. Major Players of

## List Of Figures

### LIST OF FIGURES

Figure 1. Picture of 4-Oxoisophorone

Figure 2. 4-Oxoisophorone Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global 4-Oxoisophorone Sales Growth Rate 2021-2032 (Tons)

Figure 7. Global 4-Oxoisophorone Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. 4-Oxoisophorone Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. 4-Oxoisophorone Sales Market Share by Country/Region (2025)

Figure 10. 4-Oxoisophorone Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of 99%

Figure 12. Product Picture of

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