

Acrolein Market Share in 2025: In-depth Insights into Industry Trends, Opportunities & Forecasted Growth by 2032

Acrolein is mainly used in producing acrylic acid for superabsorbent polymers and as a chemical intermediate in various chemical productions.

GERMANY, January 20, 2025

/EINPresswire.com/ -- The [acrolein market](#) is experiencing steady growth due to its wide range of industrial applications. Acrolein, a colorless, flammable organic compound, is primarily used as an intermediate in the production of acrylic acid, which is a key raw material for manufacturing superabsorbent polymers, coatings, and plastics. Additionally, acrolein is used as a biocide in water treatment, and in the production of various chemicals and pharmaceuticals.



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The acrolein market is driven by its essential role in producing acrylic acid for superabsorbent polymers and as a key chemical intermediate across various industries.”

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The acrolein market was valued at USD 4.7 billion in 2022 and is anticipated to grow from USD 4.77 billion in 2023 to USD 5.43 billion by 2032. The market is projected to experience a compound annual growth rate of approximately 1.46% during the forecast period from 2024 to 2032.

In recent years, the demand for acrolein has been driven by the rising need for acrylic acid in various end-user industries, including textiles, agriculture, automotive, and healthcare. The market is also benefiting from the growing

trend of bio-based chemicals and sustainable manufacturing practices. The increasing focus on environmental regulations is pushing companies to adopt greener production methods, thereby promoting the growth of bio-based acrolein production.

The global acrolein market is segmented by application, including acrylic acid production, water treatment, chemical manufacturing, and others. Geographically, North America, Europe, and Asia-Pacific are the dominant regions, with Asia-Pacific showing the highest growth due to rapid industrialization and urbanization.

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DROC Analysis of Acrolein Market

Driving Factors :

- **High Demand for Acrylic Acid:** The primary driver of the acrolein market is the growing demand for acrylic acid, which is used in the production of superabsorbent polymers for personal hygiene products like diapers and adult incontinence products.
- **Industrial Growth in Emerging Markets:** The rapid industrialization in regions like Asia-Pacific, especially China and India, is creating substantial demand for acrolein, primarily for use in water treatment and chemical production.
- **Growing Focus on Bio-based Chemicals:** There is an increasing shift toward bio-based production of acrolein, as sustainability and environmental concerns push industries to adopt more eco-friendly solutions.

Prominent players in the Acrolein Market include:

Formosa Chemicals Fibre Corporation, Lonza, Sinopec, Arkema, Tokuyama, Evonik, Solvay, Perstorp, BASF, Dow Chemicals, SABIC, Sumitomo Chemical, Westlake Chemical

Restraining Factors:

- **Environmental Concerns and Regulations:** Acrolein is a toxic substance with hazardous properties. Stringent environmental regulations regarding its production and usage may hinder market growth, especially in regions with strict environmental laws.
- **Volatility in Raw Material Prices:** The prices of raw materials used in the production of acrolein, such as propylene, can be volatile, affecting production costs and profitability.

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Opportunities:

- **Advancements in Production Technology:** The development of more cost-effective and environmentally friendly production processes, such as bio-based acrolein production, presents significant growth opportunities for market players.

- **Expanding Application in Agriculture:** Acrolein's use as a herbicide and biocide in agriculture presents a growing opportunity as the demand for crop protection solutions rises globally.

Challenges:

- **Health and Safety Risks:** Due to acrolein's toxic and irritant properties, manufacturers need to implement stringent safety measures, which can increase production costs.

- **Competition from Substitutes:** The availability of alternative chemicals for applications such as water treatment and chemical manufacturing may limit the growth potential of the acrolein market.

Table of Contents

SECTION I: EXECUTIVE SUMMARY AND KEY HIGHLIGHTS

EXECUTIVE SUMMARY

- Market Overview
- Key Findings
- Market Segmentation
- Competitive Landscape
- Challenges and Opportunities
- Future Outlook

SECTION II: SCOPING, METHODOLOGY AND MARKET STRUCTURE

SECTION III: QUALITATIVE ANALYSIS

SECTION IV: QUANTITATIVE ANALYSIS

SECTION V: COMPETITIVE ANALYSIS

LIST Of tables

LIST Of figures

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