

# Acrolein Market Outlook 2026-2034: Market Share, and Growth Analysis By Application (Acrylic acid, Methionine, Biocides), By Type (Propylene oxidation method, Glycerol dehydration method)

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## Abstracts

The Acrolein Market is valued at USD 1.2 billion in 2025 and is projected to grow at a CAGR of 3.1% to reach USD 1.58 billion by 2034.

### Acrolein Market

The acrolein market centers on a highly reactive, unsaturated aldehyde used primarily as an intermediate for downstream chemicals and as a potent biocide. Industrial demand is anchored in producing methionine/DL-methionine intermediates for animal nutrition, acrylic and methacrylic value chains, specialty monomers, and performance polymers. A second pillar is acrolein's strong biocidal activity, which is leveraged in oil & gas production systems, industrial water and cooling circuits, paper/pulp operations, irrigation canals, and occasionally municipal/sewer odor control - especially where sulfate-reducing or slime-forming microorganisms create plugging and corrosion. Because acrolein is toxic, unstable, and highly flammable, it is typically manufactured close to consumption sites - via propylene oxidation or, in smaller capacities, glycerol-based routes - and handled under strict containment, stabilizers, and trained logistics. Current development themes include securing propylene feedstock, diversifying into glycerol/renewable routes where economics permit, improving process catalysts for higher selectivity and lower energy, and offering formulated/packaged acrolein biocide solutions with clearer dosing and safety documentation. Growth is supported by expanding global poultry, swine, and aquaculture feed industries (pulling methionine intermediates); continued water-system integrity needs in oil & gas and industrial plants; and the broader trend toward high-performance coatings, resins, and surfactant

precursors. Key challenges are regulatory and EHS scrutiny, transport restrictions, competition from alternative biocides or non-chemical control methods, and the cyclicity of feedstock/propylene pricing. As end-users look for lower-risk, better-documented products, suppliers that combine reliable upstream integration, application know-how, and strong stewardship/handling programs will retain share.

### Acrolein Market Key Insights

Methionine chain is the demand anchor. A large share of acrolein goes into intermediates for methionine/DL-methionine, so animal-protein growth, feed formulation changes, and biosecurity in livestock directly influence base demand.

Biocide use is highly technical. Oilfield, cooling-water, and industrial users pick acrolein for effectiveness against sulfate-reducing bacteria and biofilms, but they require exact dosing, on-site application support, and clear safety SOPs.

Process route matters. Propylene oxidation remains the main route; glycerol-to-acrolein offers a partial hedge and “bio-linked” positioning but must compete on yield, catalyst life, and by-product control.

Handling and logistics are the moat. Because acrolein is toxic, lachrymatory, and polymerization-prone, customers value stabilized grades, short delivery radii, returnable/closed systems, and emergency-response capability from the supplier.

EHS and regulation drive formulation. Stricter worker-safety and environmental rules are pushing suppliers toward better-labeled, pre-diluted, or blended products that reduce operator exposure and simplify permitting.

Competition from alternative biocides. Glutaraldehyde, THPS, isothiazolinones, and non-chemical controls can displace acrolein in some programs; demonstrating superior biofilm penetration or lower total treatment cost is key to defend accounts.

Integration with downstream specialties. Producers tied to methionine, acrylic derivatives, or water-treatment portfolios can buffer demand swings and cross-sell handling/training services.

Feedstock volatility passes through. Propylene price swings affect acrolein economics; suppliers with flexible feed strategies or regional production footprints can stabilize supply to key customers.

Quality and inhibitor control. Stable aldehyde content, low polymer/impurity levels, and consistent inhibitor packages improve customer process yields and reduce fouling in downstream units.

Customer education unlocks usage. Clear guidance on material compatibility, venting, PPE, and deactivation steps allows industrial sites to keep acrolein in their toolbox instead of switching to less effective but safer biocides.

## Acrolein Market Regional Analysis

### North America

Robust oil & gas, industrial water, and pulp/paper sectors sustain demand for acrolein as a high-efficacy biocide. Local production and short-haul logistics are preferred due to hazard profiles. Feed and poultry expansions in the U.S. South and Midwest support methionine-intermediate pull. Strong EHS enforcement means suppliers must provide training, spill-response plans, and tailored blends.

### Europe

Stringent chemical and worker-safety regulations shape the market toward well-documented, stabilized grades and, where possible, lower-exposure formulations. Demand is tied to specialty chemicals, coatings/intermediates, and high-value animal nutrition. REACH/authorization requirements and tighter transport rules favor established regional producers with robust compliance and take-back programs.

### Asia-Pacific

The demand center, driven by large animal-feed industries (China, Southeast Asia), rising methionine consumption, and broad industrial water-treatment needs. Chinese producers leverage scale and proximity to propylene, while Japan/Korea emphasize high-purity intermediates for chemicals. Growing petrochemical and power plant fleets create recurring biocide opportunities, but price competition is strong.

## Middle East & Africa

Oil & gas production, desalination, and industrial water/cooling systems are the main outlets, valuing acrolein's performance against tough microbial loads. Hot climates and remote operations increase the need for on-site application support and safe, sealed delivery systems. Import reliance and regulatory variance make partnerships with local service companies important.

## South & Central America

Agriculture and aquaculture growth, plus expanding petrochemical and processing industries, create steady if smaller-scale demand. Logistics, port rules, and customer EHS maturity can limit bulk movements, so regional distributors and packaged, application-ready products gain traction. Cost sensitivity means acrolein must prove performance advantages over alternative biocides on a case-by-case basis.

## Acrolein Market Segmentation

### By Application

Acrylic acid

Methionine

Biocides

### By Type

Propylene oxidation method

Glycerol dehydration method

## Key Market players

Arkema S.A., Evonik Industries AG, Dow Inc., BASF SE, Daicel Corporation, Mitsubishi Chemical Group, Hubei Shengling Technology Co. Ltd., Wuhan Ruiji Chemical Co. Ltd., Shanghai Huayi Acrylic Acid Co. Ltd., INEOS Group Holdings S.A., Sumitomo Chemical

Co. Ltd., Nippon Shokubai Co. Ltd., Sasol Limited, LG Chem Ltd., LyondellBasell Industries N.V.

### Acrolein Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modelling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends. Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behaviour are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

### Acrolein Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption. Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

### Countries Covered

North America — Acrolein market data and outlook to 2034

United States

Canada

Mexico

Europe — Acrolein market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

#### Asia-Pacific — Acrolein market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

#### Middle East and Africa — Acrolein market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

## South and Central America — Acrolein market data and outlook to 2034

Brazil

Argentina

Chile

Peru

\* We can include data and analysis of additional countries on demand.

### Research Methodology

This study combines primary inputs from industry experts across the Acrolein value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

### Key Questions Addressed

What is the current and forecast market size of the Acrolein industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

## Your Key Takeaways from the Acrolein Market Report

Global Acrolein market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Acrolein trade, costs, and supply chains

Acrolein market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Acrolein market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Acrolein market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Acrolein supply chain analysis

Acrolein trade analysis, Acrolein market price analysis, and Acrolein supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Acrolein market news and developments

## Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

\* The updated report will be delivered within 3 working days

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