

# Global RO Membrane Cleaning Chemicals Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G55F36DC1A92EN.html>

Date: April 2026

Pages: 136

Price: US\$ 4,480.00 (Single User License)

ID: G55F36DC1A92EN

## Abstracts

The global RO Membrane Cleaning Chemicals market size is expected to reach \$ 1751 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Reverse osmosis (RO) membrane cleaning chemicals are specialized agents used to remove inorganic scale, organic matter, microorganisms, and other contaminants from the surface of RO membranes, restoring membrane flux and desalination rate. They are mainly divided into acidic cleaning agents (such as citric acid) for removing inorganic scale, and alkaline cleaning agents (such as sodium hydroxide) for removing organic matter and biofouling. These chemicals operate at specific pH values, effectively extending membrane lifespan.

The upstream sector mainly consists of basic chemicals and functional monomers, including organic acids, inorganic bases, chelating agents, surfactants, and specialty bactericides. The purity and activity of these raw materials directly determine the effectiveness of the cleaning agent formulation. The midstream sector involves the research and development and production of formulations, with the core technology lying in synergistic formulations targeting different contaminants.

Global sales in 2025 were approximately 600,400 tons, with an average selling price of US\$1,850 per ton. Gross profit margins typically remain at 25%-35% or even higher.

The industry is primarily driven by the dual logics of 'water security upgrades' and 'circular economy' on a global scale. Firstly, the explosive demand for ultrapure water from the semiconductor and new energy battery industries requires RO systems to maintain extremely high online rates and consistency, directly driving demand for high-

performance, low-residue cleaning agents. Secondly, increasingly stringent global environmental emission standards (especially restrictions on nitrogen and phosphorus emissions) are strongly driving the iterative replacement of cleaning chemicals with 'phosphorus-free, easily biodegradable' ones. This compliance pressure has become a mandatory impetus for midstream chemical manufacturers to upgrade their technologies. Furthermore, the scaling up of seawater desalination and large-scale coal chemical reuse projects has made membrane replacement costs an increasingly sensitive proportion of operating costs, making the economic benefits of 'repair instead of replacement' through chemical cleaning increasingly significant, forming a stable market for existing maintenance.

Technically, the contradiction between cleaning agent effectiveness and membrane material tolerance persists, especially when dealing with stubborn pollutants such as silica scale and heavy oil stains. Strong chemicals often accelerate the oxidative degradation of the polyamide desalination layer, leading to an irreversible decrease in desalination rate.

This report studies the global RO Membrane Cleaning Chemicals production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for RO Membrane Cleaning Chemicals and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of RO Membrane Cleaning Chemicals that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global RO Membrane Cleaning Chemicals total production and demand, 2021-2032, (Tons)

Global RO Membrane Cleaning Chemicals total production value, 2021-2032, (USD Million)

Global RO Membrane Cleaning Chemicals production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global RO Membrane Cleaning Chemicals consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: RO Membrane Cleaning Chemicals domestic production, consumption, key domestic manufacturers and share

Global RO Membrane Cleaning Chemicals production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global RO Membrane Cleaning Chemicals production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global RO Membrane Cleaning Chemicals production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global RO Membrane Cleaning Chemicals market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ecolab, Veolia, Italmatch Chemicals, AXEON, Kurita (Avista), PWT, Kovalus Separation Solutions, Kroff, King Lee Technologies, Applied Membranes, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World RO Membrane Cleaning Chemicals market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global RO Membrane Cleaning Chemicals Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global RO Membrane Cleaning Chemicals Market, Segmentation by Type:

Acidic

Alkaline

Global RO Membrane Cleaning Chemicals Market, Segmentation by Chemical Composition:

Surfactant Type

Chelating Type

Oxidizing Type

Global RO Membrane Cleaning Chemicals Market, Segmentation by Physical Form:

Liquid

Powder

Global RO Membrane Cleaning Chemicals Market, Segmentation by Application:

Seawater Desalination

Municipal

Industrial High-Purity Water

Food and Beverage

Other

Companies Profiled:

Ecolab

Veolia

Italmatch Chemicals

AXEON

Kurita (Avista)

PWT

Kovalus Separation Solutions

Kroff

King Lee Technologies

Applied Membranes

Accepta

Genesys

AWC

Xingerui

Shandong Kairui Chemistry

Shandong Taihe Technologies

Ningbo Hansen Environmental Friendly Chemical

Feymer

Henan Qingshuiyuan Technology

**Key Questions Answered:**

1. How big is the global RO Membrane Cleaning Chemicals market?
2. What is the demand of the global RO Membrane Cleaning Chemicals market?
3. What is the year over year growth of the global RO Membrane Cleaning Chemicals market?
4. What is the production and production value of the global RO Membrane Cleaning Chemicals market?
5. Who are the key producers in the global RO Membrane Cleaning Chemicals market?
6. What are the growth factors driving the market demand?

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