



Market Analytics: Acrylic Acid & Derivatives - 2023

Market Analytics: Acrylic Acid & Derivatives- 2023 is one in a series of reports published as part of NexantECA's Markets & Profitability program.

Market Analytics: Acrylic Acid & Derivatives - 2023 report provides an in-depth analysis of the acrylic acid industry including:

- Acrylic Acid
- Acrylate Esters
- Super Absorbent Polymers (SAP)

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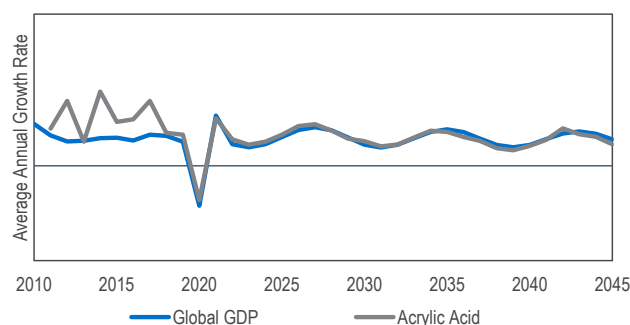
Along with the written report, NexantECA's Online Database includes supply, demand and trade analysis for 40 countries and global capacity listings updated on a monthly basis.

Report Abstract:

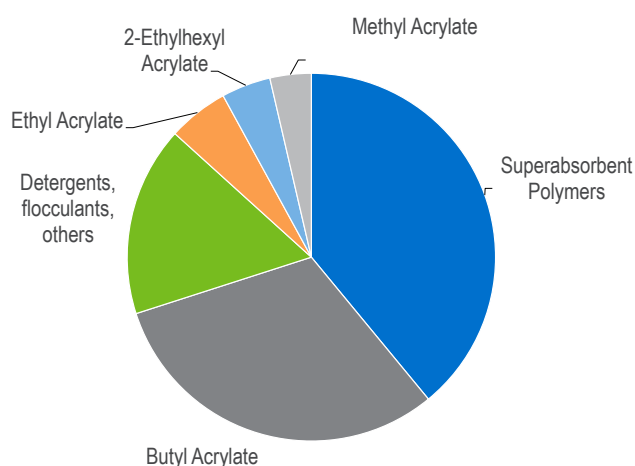
There are two main commercialised routes to acrylic acid and acrylate ester (acrylate) production: propylene oxidation technology and acetylene Reppe technology. Other routes including production directly from propane and a process based on lactic acid, which had not yet been commercialised. There is currently no Reppe process acrylic acid capacity still in commercial operation, as China appears to be favouring propylene-based routes.

Propylene may be oxidised to acrylic acid in one stage using a cobalt molybdenum catalyst or in two stages through an intermediate, acrolein, based on complex multi-component catalysts. Single stage processes are problematic due to the proportion of recycle required and reactor size limitations.

Global Acrylic Acid Consumption Growth
million tons



Global Acrylic Acid Demand, 2023



Acrylic acid is used in a diverse range of applications including construction, automotive, packaging, health and personal care products. The hydrophilic nature of polyacrylates and their copolymers has led to extensive use in water-based surface coatings, adhesives and fibres.

These polymers are amongst the most versatile materials for providing performance properties such as colour stability to a wide variety of applications. Powder coatings may also be based on acrylics.

More stringent environmental standards concerning volatile organic compounds (VOCs) emissions, especially from solvent-based coatings, are supporting sustainable growth for esters of acrylic acid, a key component in water-based paints, coatings and adhesives.

A significant volume of crude acrylic acid is purified and polymerised into glacial acrylic acid and polyacrylic acid, respectively. When lightly cross-linked, these materials have a unique capacity for absorbing huge quantities of water. These polymers are useful when brisk absorption is required and they have found popular use in sanitary products such as disposable baby diapers, adult incontinence products and feminine hygiene goods.

For more information contact us at Markets@NexantECA.com or www.NexantECA.com



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- A. Methodology
- B. Acrylic Acid – Technology

Chapters 3 to 6 are segmented by key region:

- North America
- South America
- Western Europe
- Central Europe
- Eastern Europe
- Middle East
- Africa
- Asia Pacific

Subscription Details:

Subscription to **Market Analytics: Acrylic Acid - 2023** includes:

- 12 month access via the NexantECA website, to:
 - Unlimited downloads of PDF reports
 - Downloadable data in Excel from the Online Database
- Webinar
- Consultation time with the project team

Customized subscriptions are also available.

Each region/country is further segmented by:

- **Consumption:** Assesses historic and forecast consumption; forecasts are based on projections of end use and economic activity.
- **Supply:** Includes a list of all producers, their production capacity, location, etc., and discussion of the status of new projects.
- **Supply, Demand and Trade:** Provides historical analysis and forecasts to 2045 of consumption, production, imports/exports, inventory build-up/decline, capacity and capacity utilization.

This analysis will identify the issues shaping the industry, as well as provide an independent appraisal of the market.

For related analysis, please refer to:

[Profitability and Price Forecasts: Acrylic Acid Quarterly Business Analysis](#)

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The **Markets and Profitability** program comprises of the well-known Petroleum and Petrochemical Economics (PPE), PolyAcrylic Acid Planning Service (POPS), Strategic Business Analysis (SBA) and World Gas Analytics (WGAS).

Markets and Profitability tracks over 60 feedstocks, petrochemicals, polymers, chemical intermediates and fertilizers on an ongoing basis and provides regularly updated reports covering all commercial aspects of these global industries. The accompanying database, provides global analysis and forecasts in two major inter-related areas: **Markets and Profitability**.

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