



## Market Analytics: Phenol & Derivatives - 2023

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

Market Analytics: Phenol & Derivatives - 2023 report provides an in-depth analysis of the olefins industry including:

- Phenol
- Cumene
- BPA
- Acetone
- Polycarbonate

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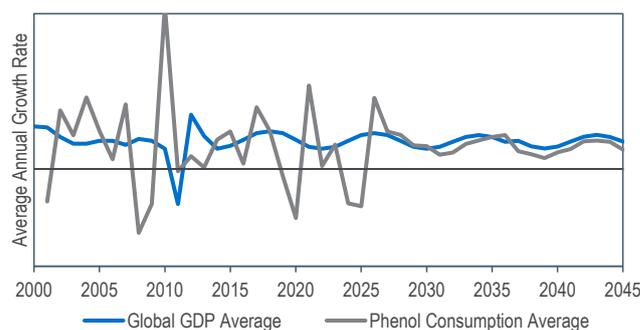
Along with the written report, NexantECA's Online Database includes supply, demand and trade analysis for 40 countries and global capacity listings updated on a monthly basis.

### Report Abstract:

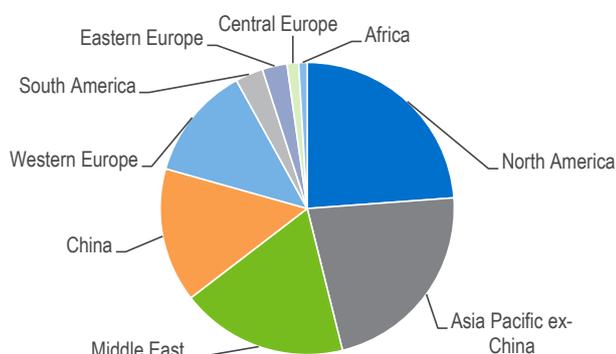
Cumene is a minor end-use for propylene, representing approximately five percent of total propylene consumption. Cumene is used almost exclusively in the manufacture of phenol and acetone via integrated production complexes. Small volumes of alpha methyl styrene (AMS) are also formed as a co-product during the oxidation process. Despite this, not all phenol producers are integrated with cumene and therefore some large volume trades do exist.

Bisphenol A (BPA) and phenolic resins are the main end-use markets for phenol, collectively accounting for approximately three quarters of the total market. The performance of these two markets is therefore tied to the automotive, construction and electrical/electronics sectors. Other uses of phenol include salicylic acid, alkyl phenols and cyclohexanone. Cyclohexanone is an intermediate for the production of caprolactam and adipic acid, which are used to manufacture nylon fibres and resins and polyurethanes.

**Global Phenol Consumption Growth**  
million tons



**Global Phenol Demand, 2023**



Acetone production is usually driven by higher market demand for phenol. This imbalance sometimes causes the market to be long in acetone. In contrast, weak phenol consumption can also cause tightness in the acetone market. Acetone is mainly consumed in solvents used in the coatings, pharmaceuticals, dye and adhesives industries. Acetone is also consumed as an intermediate for bisphenol A (BPA), methyl methacrylate (MMA), methyl isobutyl ketone (MIBK) and isopropanol (IPA) production.

The integrated phenol/acetone/BPA process generates around 0.25 tons surplus of acetone for every ton of BPA produced. MMA can be produced from several processes; acetone cyanohydrin is the dominant route, accounting for around two-thirds of global MMA capacity. A large portion

of MMA is used to produce acrylic sheet and acrylic coatings, which find considerable use in construction and automotive industry.



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## Table of Contents:

1. Executive Summary
2. Introduction
3. Cumene
4. Phenol
5. Acetone
6. Bisphenol A
7. Polycarbonate

### Appendix

- A. Methodology
- B. Phenol & Derivatives – Technology

Chapters 3 to 7 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: Phenol & Derivatives - 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: Phenol & Derivatives Quarterly Business Analysis](#)

### Contact Us:

For more information please contact

[Markets@NexantECA.com](mailto:Markets@NexantECA.com)

or

[www.NexantECA.com](http://www.NexantECA.com)



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The **Markets and Profitability** program comprises of the well-known Petroleum and Petrochemical Economics (PPE), PolyPhenol & Derivatives 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**.

NexantECA serves its clients from over 10 offices located throughout the Americas, Europe, the Middle East, Africa and Asia.

#### Americas

Tel: +1 914 609 0300  
44 S Broadway,  
4th Floor White Plains  
NY 10601-4425  
USA

#### Europe, Middle East & Africa

Tel: +44 20 7950 1600  
110 Cannon Street  
London, EC4N 6EU  
United Kingdom

#### Asia Pacific

Tel: +662 793 4600  
22nd Floor, Rasa Tower I  
555 Phahonyothin Road  
Kwaeng Chatuchak  
Khet Chatuchak  
Bangkok 10900  
Thailand