



Market Analytics: Linear Alpha Olefins - 2022

Market Analytics: Linear Alpha Olefins - 2022 is one in a series of reports published as part of NexantECA's Markets & Profitability program.

Market Analytics: Linear Alpha Olefins - 2022 report provides an in-depth analysis of the following products :

- Butene-1
- Hexene-1
- Octene-1
- Higher Alpha Olefins

Published: December 2022

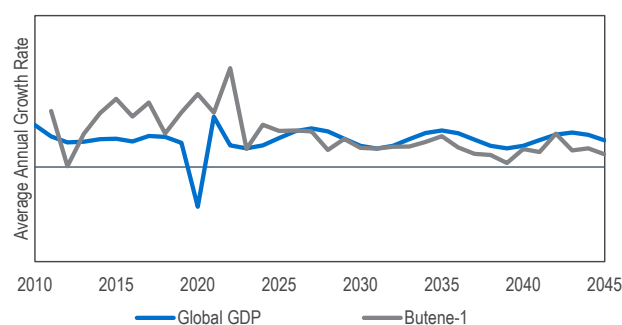
Along with the written report, NexantECA's Online Database includes supply, demand and trade analysis for 40 countries and global capacity listings updated on a monthly basis.

Report Abstract:

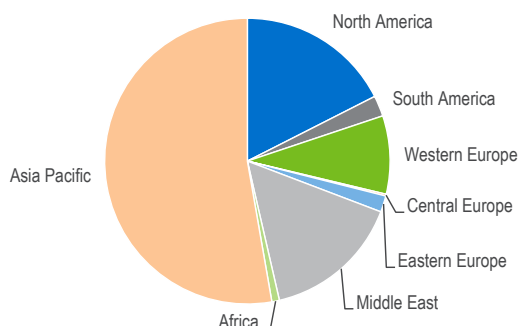
The alpha olefin business is complex. Although certain alpha olefins can be produced on-purpose, much of the production takes place using ethylene oligomerisation and as such one plant will produce a distribution of products. These products supply a wide range of very different markets. Each market behaves differently in terms of application/end-use, market size, growth, customer locations, customer size and requirements and supply chain characteristics.

This poses a number of challenges to linear alpha olefin (LAO) producers. The low carbon number components such as butene-1, hexene-1 and octene-1 are predominantly consumed in the production of polyethylene. Decene-1 is principally used to manufacture polyalpha olefins (PAOs) for the production of high performance lubricants.

Global Butene-1 Consumption Growth
million tons



Global Butene-1 Demand, 2022



Higher alpha olefins in the C12-C14 range are consumed in the production of detergent alcohols for subsequent ethoxylation, sulfonation, etc. Certain fractions, namely hexadecene-1 (C16) and octadecene-1 (C18) are used predominantly in the oilfield chemicals sector and also in the paper industry for the production of certain sizing agents. Higher fractions, greater than eicosene (C20+), are used to manufacture various speciality chemicals, including lubricant additives and speciality waxes.

The alpha olefins producers therefore must service these very different industries, which have very different economic influences and demand drivers. At any one time in the economic cycle, demand across all fractions will fluctuate. Some fractions will be long, while others will be short. This presents an even greater challenge to alpha olefins producers.



Market Analytics: Linear Alpha Olefins - 2022

Table of Contents:

1. Executive Summary
2. The Linear Alpha Olefins Industry
3. Butene-1
4. Hexene-1
5. Octene-1
6. Higher Alpha Olefins

Appendix

- A. Methodology
- B. Technology

Chapters 3-6 is 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: Linear Alpha Olefins - 2022** 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: Linear Alpha Olefins Quarterly Business Analysis](#)

Contact Us:

For more information please contact

Markets@NexantECA.com

or

www.NexantECA.com



NexantECA Subscriptions and Reports provide clients with comprehensive analytics, forecasts and insights for the chemicals, polymers, energy and cleantech industries. Using a combination of business and technical expertise, with deep and broad understanding of markets, technologies and economics, NexantECA provides solutions that our clients have relied upon for over 50 years.

The **Markets and Profitability** program comprises of the well-known Petroleum and Petrochemical Economics (PPE), PolyOlefins 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