

Fumaric Acid

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Abstract

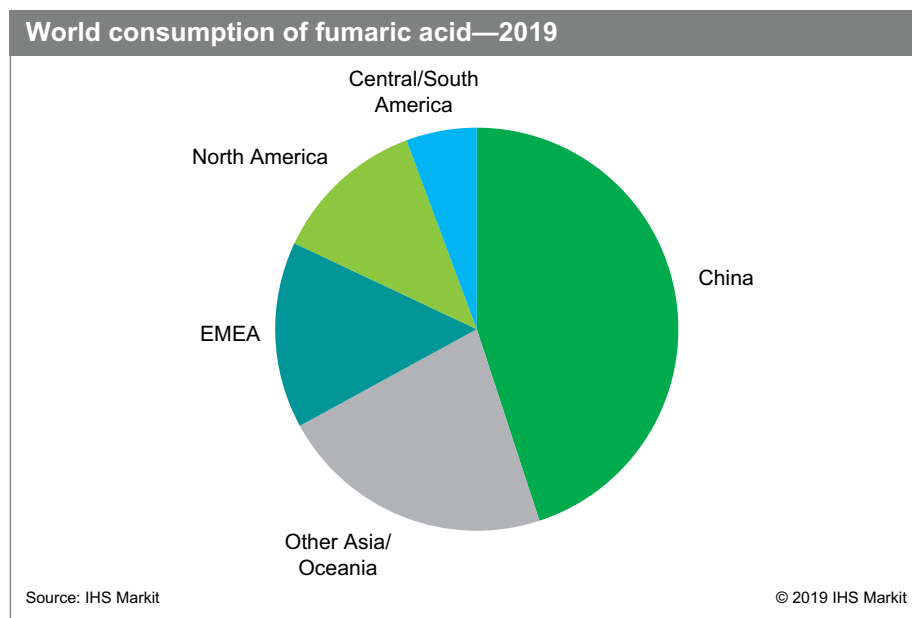
Fumaric acid (trans-2-butenedioic acid) is a multifunctional chemical with a diverse set of end uses, including unsaturated polyester resins, food and beverages, L-aspartic acid, rosin paper sizes, alkyd resins, and animal feed.

Unsaturated polyester resin (UPR) is the largest end use for fumaric acid in 2019. Demand for UPR is strongly dependent on construction/remodeling activity (residential and nonresidential) and motor vehicle production. Global demand for UPR is healthy, with especially robust growth in Asia.

The food and beverages segment was the second-largest end use for fumaric acid. In food and beverage applications, fumaric acid serves primarily as an acidulant; it is used to adjust pH, enhance flavor, and extend shelf life by controlling the growth of microorganisms. Expansion of this segment will be driven largely by demand increases in China and Other Asia. In other regions, food and beverage applications are comparatively mature, and consumption growth will be steady but moderate.

L-Aspartic acid production, the third-largest end use for fumaric acid, is expected to see the fastest growth during the forecast period. L-Aspartic acid and phenylalanine are the key building blocks for aspartame, a zero-calorie high-intensity sweetener that is widely used in diet soft drinks and other low-calorie foods. China is the largest producer and consumer of L-aspartic acid.

The following pie chart shows world consumption of fumaric acid:



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In 2019, China and Other Asia/Oceania accounted for about two-thirds of world consumption of fumaric acid. Growth in demand is high in these markets because of the increasing demand for processed food and ready-to-drink beverages, improving living standards, and robust growth in construction/remodeling.

For more detailed information, see the table of contents, shown below.

IHS Markit's Chemical Economics Handbook – *Fumaric Acid* is the comprehensive and trusted guide for anyone seeking information on this industry. This latest report details global and regional information, including



Global summary;
regional coverage



Producers with
annual capacities
and plant sites



Production figures
and trends



Consumption and
forecasts by end use
application



Manufacturing
processes and
environmental issues



Trade – imports
and exports

Key benefits

IHS Markit's Chemical Economics Handbook – *Fumaric Acid* has been compiled using primary interviews with key suppliers and organizations, and leading representatives from the industry in combination with IHS Markit's unparalleled access to upstream and downstream market intelligence and expert insights into industry dynamics, trade, and economics.

This report can help you

- Identify trends and driving forces influencing chemical markets
- Forecast and plan for future demand
- Understand the impact of competing materials
- Identify and evaluate potential customers and competitors
- Evaluate producers
- Track changing prices and trade movements
- Analyze the impact of feedstocks, regulations, and other factors on chemical profitability

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