

# **?-Humulene Market, Global Outlook and Forecast 2022-2028**

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## **Abstracts**

Humulene, also known as  $\alpha$ -humulene or  $\alpha$ -caryophyllene, is a naturally occurring monocyclic sesquiterpene (C<sub>15</sub>H<sub>24</sub>), containing an 11-membered ring and consisting of 3 isoprene units containing three nonconjugated C=C double bonds, two of them being triply substituted and one being doubly substituted. It was first found in the essential oils of *Humulus lupulus* (hops), from which it derives its name. Humulene is an isomer of  $\alpha$ -caryophyllene, and the two are often found together as a mixture in many aromatic plants. Humulene is the characteristic terpene of hops, *Humulus lupulus*, but it is also found in cannabis, sage, and ginseng. Humulene, also known as  $\alpha$ -caryophyllene, is a ring-opened isomer of  $\alpha$ -caryophyllene, which is notably lacking in CB<sub>2</sub> activity. Nonetheless, it also possesses powerful anti-inflammatory activity equal to dexamethasone in an animal model. Humulene possesses both topical and systemic anti-inflammatory properties and is an effective analgesic when taken topically, orally, or by aerosol. Humulene can produce ROS, leading to an antineoplastic effect by inducing apoptosis; although at moderate levels, ROS can increase tumor growth.  $\alpha$ -Caryophyllene was synergistic with humulene in one study. Interestingly, humulene was shown to increase secretion of IL-8, a chemokine with various functions, including promoting angiogenesis, helpful in wound healing but not typically associated with anticancer compounds.

This report contains market size and forecasts of  $\alpha$ -Humulene in global, including the following market information:

Global  $\alpha$ -Humulene Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global  $\alpha$ -Humulene Market Sales, 2017-2022, 2023-2028, (Kgs)

### Global top five ?-Humulene companies in 2021 (%)

The global ?-Humulene market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period 2022-2028.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

More Than 96% Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of ?-Humulene include Sigma-Aldrich, TCI Chemical, Cayman Chemical, TRC, BioCrick, ChemFaces, MedKoo, AK Scientific and AvaChem, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the ?-Humulene manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global ?-Humulene Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (Kgs)

Global ?-Humulene Market Segment Percentages, by Type, 2021 (%)

More Than 96%

More Than 97%

More Than 98%

Others

Global ?-Humulene Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (Kgs)

Global ?-Humulene Market Segment Percentages, by Application, 2021 (%)

Experimental Research

Biomedicine

Others

Global  $\alpha$ -Humulene Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions)  
& (Kgs)

Global  $\alpha$ -Humulene Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

## Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies ?-Humulene revenues in global market, 2017-2022 (Estimated), (\$

millions)

Key companies ?-Humulene revenues share in global market, 2021 (%)

Key companies ?-Humulene sales in global market, 2017-2022 (Estimated), (Kgs)

Key companies ?-Humulene sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Sigma-Aldrich

TCI Chemical

Cayman Chemical

TRC

BioCrick

ChemFaces

MedKoo

AK Scientific

AvaChem

Biosynth Carbosynth

Chem-Impex

ABSTRAX

Spectrum Chemical

Chengdu Biopurify Phytochemicals

MedChemExpress

Elevation Terpenes

Vigon International

Natural Aroma

EXTRASYNTHÈSE

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