

# United States Ketone Market, By Form (Dry v/s Liquid), By Type (Synthetic v/s Bio), By Supplement Type (Ketone Salts, Ketone Esters, Ketone Oil, Raspberry Ketones), By Application (Food & Beverage, Pharmaceuticals, Cosmetic & Personal Care Products, Building & Construction, Others), By Region and Competition, Forecast & Opportunities, 2018-2028F

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## Abstracts

The United States Ketone Market was valued at USD 1.53 billion in 2022 and is expected to experience substantial growth in the forecast period, with a Compound Annual Growth Rate (CAGR) of 4.53% through 2028 and is expected to reach 1.98 billion by 2028. Ketones are a category of organic compounds characterized by the presence of a carbonyl group, where a carbon atom forms a covalent bond with an oxygen atom, and the remaining bonds are linked to other carbon atoms or hydrocarbon radicals (R). This functional group is denoted by the structure  $R-C=O$ , where R represents various carbon-containing substituents. Acetone, with the formula  $(CH_3)_2C=O$ , is the simplest example of a ketone. Ketone compounds exhibit significant physiological properties, are found in various sugars, and are used in medicinal purposes, including both natural and synthetic steroid hormones. They display nucleophilic traits at oxygen and electrophilic characteristics at carbon and tend to have higher solubility in water as a distinctive trait.

### Key Market Drivers

1. Rising Demand for Ketones in the Food & Beverage Sector: The food and beverage

industry has seen a surge in demand for ketone-based products due to their association with improved energy levels and mental clarity. Ketones, especially medium-chain triglyceride (MCT) oil, offer a rapid and sustained source of energy, leading to their inclusion in energy drinks, coffee blends, and snack bars. Weight management is another driver, with ketones helping individuals looking to lose weight. The demand for natural and clean-label products has also contributed to the integration of ketones into various food and beverage products.

2. **Increasing Demand for Ketones in the Cosmetic & Personal Care Sector:** Ketones have found their way into the cosmetic and personal care industry due to their moisturizing and anti-aging properties. They can penetrate the skin's surface, providing deep hydration and addressing concerns like skin aging. Their antioxidant properties protect the skin from premature aging. Consumers seeking clean and natural beauty products are drawn to ketones, leading to their inclusion in creams, lotions, and serums. Ketones are also making a mark in hair care products, addressing issues like dryness and frizz.

3. **Rising Demand for Ketones in the Pharmaceuticals Sector:** Ketones are gaining significance in the pharmaceutical industry, particularly in the management of neurological disorders such as epilepsy, Alzheimer's, and Parkinson's disease. Ketogenic diets, which elevate ketone levels, have shown promise in reducing seizures and cognitive decline. Ketones are also being explored for their potential as anti-inflammatory agents and in managing metabolic disorders like type 2 diabetes and obesity.

### Key Market Challenges

1. **Availability of Cost-Effective Substitutes:** Fresh fruits and vegetables, balanced diets, and other alternatives that provide essential nutrients could reduce the demand for ketone-based foods and supplements. Safety concerns, such as the potential risks associated with certain ketone products, may also hinder market growth.

2. **High R&D Costs and Technical Challenges:** Research has highlighted potential incompatibilities of ketone products with certain health conditions, limiting their appeal to specific consumer groups. Additionally, the high cost and unpalatable taste of some ketone products, as well as concerns about their potential carcinogenicity, could impact market growth.

3. **Side Effects:** While ketone products offer various benefits, they can also lead to

allergic reactions and adverse effects, such as nausea and the formation of toxic ketone bodies, if consumed excessively. Some ketone products, like ketone salts, have been linked to increased blood pressure, raising health-related concerns.

### Key Market Trends

1. **Growing Demand for Ketone-based Pharmaceuticals:** Ketone compounds are increasingly sought after in the pharmaceutical sector for their potential therapeutic effects. They are being explored for their role in managing neurological disorders and metabolic diseases, driving demand in the pharmaceutical industry.
2. **Expanding Industrial Applications:** Ketones are versatile compounds used in various industries, including chemicals, plastics, and cosmetics, due to their unique properties. Green chemistry methods for ketone production are gaining traction, aligning with sustainability goals.
3. **Research and Development Initiatives:** Ongoing research is uncovering new applications for ketones, including cognitive enhancement, athletic performance, and metabolic health. Ketones are also finding their way into the food and beverage industry, leading to the development of innovative products.

### Segmental Insights

- **Form Insights:** Liquid ketone supplements are expected to register the highest growth due to their convenience for individuals following ketogenic diets, athletes seeking performance enhancement, and industrial applications.
- **Type Insights:** Bio-ketones are anticipated to grow significantly, driven by their use in sustainable materials, biofuels, and clean energy technologies.
- **Supplement Type Insights:** Ketone esters are expected to experience substantial growth, primarily due to their popularity among individuals on ketogenic diets and athletes looking to enhance their performance.
- **Application Insights:** The pharmaceutical sector is poised for substantial growth, with ketones being investigated for their potential in managing neurological disorders, antimicrobial properties, and metabolic diseases.

### Regional Insights

*United States Ketone Market, By Form (Dry v/s Liquid), By Type (Synthetic v/s Bio), By Supplement Type (Ketone...*

- Midwest United States: This region is witnessing the fastest growth, driven by the widespread adoption of natural ketone diets, increased use of ketone supplements in pharmaceuticals and cosmetic & personal care products, and the rising demand for ketone esters in the cosmetic and food sector.

### Key Market Players

Eastman Chemicals Co.

Celanese Corporation

AstaTech, Inc.

Genomatica Inc.

Limitless Venture Group

ALTIVIA Ketones & Additives, LLC

HVMN Inc.

### Report Scope:

In this report, the United States Ketone Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### United States Ketone Market, By Form:

Dry

Liquid

#### United States Ketone Market, By Type:

Synthetic

Bio

### United States Ketone Market, By Supplement Type:

Ketone Salts

Ketone Esters

Ketone Oil

Raspberry Ketones

### Ketone Market, By Application:

Food & Beverage

Pharmaceuticals

Cosmetic & Personal Care Products

Building & Construction

Others

### United States Ketone Market, By Region:

Northeast

South

Midwest

West

### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the United States Ketone Market.

### Available Customizations:

*United States Ketone Market, By Form (Dry v/s Liquid), By Type (Synthetic v/s Bio), By Supplement Type (Ketone...*

United States Ketone Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

#### Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

1. Product Overview
  - 1.1. Market Definition
  - 1.2. Scope of the Market
    - 1.2.1. Markets Covered
    - 1.2.2. Years Considered for Study
    - 1.2.3. Key Market Segmentations

## 2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

## 3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions
- 3.5. Overview of Market Drivers, Challenges, Trends

## 4. VOICE OF CUSTOMER

## 5. IMPACT OF COVID-19 OF UNITED STATES KETONE MARKET

## 6. UNITED STATES KETONE MARKET OUTLOOK

- 6.1. Market Size & Forecast
  - 6.1.1. By Value & Volume
- 6.2. Market Share & Forecast
  - 6.2.1. By Form (Dry v/s Liquid)

- 6.2.2. By Type (Synthetic v/s Bio)
- 6.2.3. By Supplement Type (Ketone Salts, Ketone Esters, Ketone Oil, Raspberry Ketones)
- 6.2.4. By Application (Food & Beverage, Pharmaceuticals, Cosmetic & Personal Care Products, Building & Construction, Others)
- 6.2.5. By Region (Northeast, Midwest, West, South)
- 6.2.6. By Company (2022)
- 6.3. Market Map
  - 6.3.1. By Form
  - 6.3.2. By Type
  - 6.3.3. By Supplement Type
  - 6.3.4. By Application
  - 6.3.5. By Region

## **7. NORTHEAST UNITED STATES KETONE MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Form
  - 7.2.2. By Type
  - 7.2.3. By Supplement Type
  - 7.2.4. By Application

## **8. MIDWEST UNITED STATES KETONE MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Form
  - 8.2.2. By Type
  - 8.2.3. By Supplement Type
  - 8.2.4. By Application

## **9. WEST UNITED STATES KETONE MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast



- 9.2.1. By Form
- 9.2.2. By Type
- 9.2.3. By Supplement Type
- 9.2.4. By Application

## **10. SOUTH UNITED STATES KETONE MARKET OUTLOOK**

- 10.1. Market Size & Forecast
  - 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Form
  - 10.2.2. By Type
  - 10.2.3. By Supplement Type
  - 10.2.4. By Application

## **11. MARKET DYNAMICS**

- 11.1. Drivers
- 11.2. Challenges

## **12. MARKET TRENDS & DEVELOPMENTS**

- 12.1. Research & Development
- 12.2. Product launch
- 12.3. Merger's & Acquisition

## **13. UNITED STATES KETONE MARKET: SWOT ANALYSIS**

## **14. PORTER'S FIVE FORCES ANALYSIS**

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

## **15. COMPETITIVE LANDSCAPE**

- 15.1. Business Overview
- 15.2. Product Offerings
- 15.3. Recent Developments
- 15.4. Financials (In Case of Listed Companies)
- 15.5. Key Personnel
  - 15.5.1. Eastman Chemicals Co.
  - 15.5.2. Celanese Corporation
  - 15.5.3. AstaTech, Inc.
  - 15.5.4. Genomatica Inc.
  - 15.5.5. Limitless Venture Group
  - 15.5.6. ALTIVIA Ketones & Additives, LLC
  - 15.5.7. HVMN Inc.

## **16. STRATEGIC RECOMMENDATIONS**

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