

# Global Spermidine Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Spermidine market size is expected to reach \$ 627 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

Global sales of spermidine reached 628 tons in 2025, with an average price of \$572/kg.

Spermidine is a naturally occurring polyamine compound and one of the important organic molecules in living organisms. It plays an important role in cell growth, metabolism and survival. Spermidine mainly exists in the cytoplasm and nucleus. It is a polyamine with the chemical formula  $(\text{NH}_2(\text{CH}_2)_3\text{NH}(\text{CH}_2)_4\text{NH}_2)$ .

Spermidine raw materials are sourced via two routes: 'natural extraction' and 'synthetic/fermentation.' Natural extraction primarily uses wheat germ, buckwheat sprouts, or Chlorella powder, containing 0.1-0.5% spermidine. After water extraction, decolorization, ion exchange, and concentration/crystallization, the raw material cost accounts for approximately 30% of the ex-factory price, but the yield is low and waste is significant. The synthetic route centers on acrylonitrile-putrescine Michael addition-high-pressure hydrogenation. Putrescine (butanediamine) and acrylonitrile together account for 55% of the raw material cost, while hydrogenation using Raney nickel, solvent recovery, and purification processes account for 25%. Currently, this remains the most economical process for kilogram-scale production.

Although fermentation uses glucose and inorganic nitrogen as a cheap carbon source, the product concentration is  $\approx 3 \text{ g L}^{-1}$ , and the costs of downstream concentration, decolorization, and impurity removal drive up the overall cost, making it 15-20% higher than chemical methods. It has not yet been scaled up to the ton level.

This report studies the global Spermidine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Spermidine and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as

details the characteristics of Spermidine that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Spermidine total production and demand, 2021-2032, (Kilogram)

Global Spermidine total production value, 2021-2032, (USD Million)

Global Spermidine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilogram), (based on production site)

Global Spermidine consumption by region & country, CAGR, 2021-2032 & (Kilogram)

U.S. VS China: Spermidine domestic production, consumption, key domestic manufacturers and share

Global Spermidine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilogram)

Global Spermidine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilogram)

Global Spermidine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilogram)

This report profiles key players in the global Spermidine market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Thermo Fisher Scientific, Iris Biotech, Merck, Biosynth Carbosynth, Santa Cruz Biotechnology, Spectrum Chemical, Cayman Chemical, FUJIFILM Wako Pure Chemical, Toronto Research Chemicals, Carl Roth, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Spermidine market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilogram) and average price (US\$/g) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Spermidine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Spermidine Market, Segmentation by Type:

Purity?98%

Purity?99%

#### Global Spermidine Market, Segmentation by Biosynthetic Pathway:

Endogenous

Exogenous

#### Global Spermidine Market, Segmentation by Grade:

Reagent Grade

Pharmaceutical Grade

Industrial Grade

#### Global Spermidine Market, Segmentation by Application:

Pharmaceutical and Dietary Supplements

Cosmetics

Other

### **Companies Profiled:**

Thermo Fisher Scientific

Iris Biotech

Merck

Biosynth Carbosynth

Santa Cruz Biotechnology

Spectrum Chemical

Cayman Chemical

FUJIFILM Wako Pure Chemical

Toronto Research Chemicals

Carl Roth

BOC Sciences

Simson Pharma

Beantown Chemical

SRL Chemical

### **Key Questions Answered:**

1. How big is the global Spermidine market?
2. What is the demand of the global Spermidine market?

3. What is the year over year growth of the global Spermidine market?
4. What is the production and production value of the global Spermidine market?
5. Who are the key producers in the global Spermidine market?
6. What are the growth factors driving the market demand?

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