

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

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## Abstracts

The global Spermine and Spermidine market size is expected to reach \$ 676 million by 2032, rising at a market growth of 9.0% CAGR during the forecast period (2026-2032). Global sales of spermine and spermidine reached 628 tons in 2025, with an average price of US\$578 per kilogram.

Spermine and spermidine are naturally occurring polyamines found in the sperm of animals, including humans. They are fundamental components of sperm cells and are involved in various biological processes, such as cell growth, differentiation, and apoptosis. These compounds have been studied for their potential health benefits, including their role in male fertility and as potential anti-aging agents. They are also used in some skincare products for their moisturizing and protective properties. Industrially, the primary raw material for spermidine is putrescine (butanediamine), which can be obtained through the acrylonitrile-butanediamine Michael addition-hydrogenation route or microbial fermentation of arginine/ornithine. Spermine is obtained by introducing a propylamine group into spermidine, thus spermidine is both a product and a precursor to spermine. In terms of cost structure, 70% of the cost of the chemical method is spent on reductive hydrogenation, protection-deprotection, and purification. Solvent hydrogenation using Pd/C, Raney nickel, and depreciation of high and low pressure reactors account for the majority of the cost. The fermentation method uses only glucose and inorganic nitrogen as raw materials, but involves multiple enzymatic steps, a product concentration of only 1?2 g L??, and downstream concentration/decolorization accounts for more than 55%. Currently, the cost per kilogram is still 15?20% higher than the chemical method.

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

This report is a detailed and comprehensive analysis of the world market for Spermine and 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 Spermine and Spermidine that contribute to its increasing demand across many markets.

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

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

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

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

Global Spermine and Spermidine consumption by region & country, CAGR, 2021-2032 & (Tons)

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

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

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

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

This report profiles key players in the global Spermine and 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 Spermine and Spermidine market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) 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 Spermine and Spermidine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Spermine

Spermidine

#### Global Spermine and Spermidine Market, Segmentation by Amine Count:

Triamine

Tetraamine

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

Reagent Grade

Pharmaceutical Grade

Industrial Grade

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

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