

Global Chiral Phosphoric Acid Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Chiral Phosphoric Acid market size is expected to reach \$ 93.68 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032).

Chiral phosphoric acids, or CPA catalysts, are chiral Brønsted acid organocatalysts based on phosphoric acid diester frameworks. They are typically derived from axially chiral scaffolds such as BINOL, H8-BINOL or SPINOL and are used to promote enantioselective transformations through hydrogen bonding, ion-pairing, chiral counteranion control and Brønsted acid activation. Typical applications include imine additions, transfer hydrogenation, Pictet-Spengler reactions, Mannich reactions, Diels-Alder reactions, acetalization, cyclization, kinetic resolution and asymmetric synthesis of pharmaceutical or fine chemical intermediates.

CPA catalysts are not a single compound but a family of chiral phosphoric acid diesters based on scaffolds such as BINOL, H8-BINOL and SPINOL. Unlike metal-coordinating ligands such as DPPF, XPhos or BrettPhos, CPAs are primarily used as metal-free chiral Brønsted acid catalysts, hydrogen-bond donors, chiral counteranions and ion-pairing catalysts. They should also be distinguished from true chiral phosphonic acids and chiral phosphonate intermediates, which belong to a different chemical and commercial category.

From the supply perspective, the CPA market is structured around the Daicel/Strem technology-backed supply system, global catalog reagent brands such as TCI and Sigma-Aldrich, China-based specialty chemical suppliers and regional research chemical suppliers. Daicel and Strem form the most important high-confidence supply channel in the U.S. and Europe, while TCI has well-documented TRIP-type and BINOL-derived CPA products. BLD provides a broad China-based CPA product category and

several individual product pages.

Demand is driven by pharmaceutical route screening, CRO/CDMO process services, asymmetric organocatalysis, catalyst-library screening and fine chemical route development. Parent BINOL hydrogenphosphate is the lower-cost, broader-use product, while TRIP and other bulky 3,3'-substituted CPAs are higher-value catalysts for demanding enantioselective transformations. SPINOL-derived and custom CPAs address difficult substrates, proprietary catalyst systems and advanced methodology research. The market is therefore a technically driven niche rather than a commodity chemical market, with competition based on scaffold diversity, enantiomeric purity, lot consistency, documentation, availability and custom scale-up capability.

This report studies the global Chiral Phosphoric Acid production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Chiral Phosphoric Acid total production and demand, 2021-2032, (Tons)

Global Chiral Phosphoric Acid total production value, 2021-2032, (USD Million)

Global Chiral Phosphoric Acid production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Chiral Phosphoric Acid consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Chiral Phosphoric Acid domestic production, consumption, key domestic manufacturers and share

Global Chiral Phosphoric Acid production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Chiral Phosphoric Acid production by Catalyst Scaffold, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Chiral Phosphoric Acid production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Chiral Phosphoric Acid 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 Daicel Chiral Technologies, Strem Chemicals, Tokyo Chemical Industry Co., Ltd., BLD Pharmatech Ltd., 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 Chiral Phosphoric Acid market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Catalyst Scaffold, 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 Chiral Phosphoric Acid Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Chiral Phosphoric Acid Market, Segmentation by Catalyst Scaffold:

BINOL-derived CPAs

TRIP-type BINOL CPAs

H8-BINOL-derived CPAs

SPINOL-derived CPAs

Global Chiral Phosphoric Acid Market, Segmentation by Substitution Pattern:

Unsubstituted Parent CPAs

3,3'-Aryl-substituted CPAs

3,3'-Bulky Alkyl/Aryl CPAs

Global Chiral Phosphoric Acid Market, Segmentation by Purity:

Research Grade 95%-97%

High Purity Grade ≥98%

High ee Grade ≥99% ee

Global Chiral Phosphoric Acid Market, Segmentation by Application:

Pharmaceutical Route Screening

Academic Methodology Research

Fine Chemical / Agrochemical Synthesis

Companies Profiled:

Daicel Chiral Technologies

Strem Chemicals

Tokyo Chemical Industry Co., Ltd.

BLD Pharmatech Ltd.

Key Questions Answered:

1. How big is the global Chiral Phosphoric Acid market?
2. What is the demand of the global Chiral Phosphoric Acid market?
3. What is the year over year growth of the global Chiral Phosphoric Acid market?
4. What is the production and production value of the global Chiral Phosphoric Acid market?
5. Who are the key producers in the global Chiral Phosphoric Acid market?
6. What are the growth factors driving the market demand?

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