

Global Chiral Phosphoric Acid Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GC07634EFD29EN.html>

Date: August 2026

Pages: 79

Price: US\$ 3,480.00 (Single User License)

ID: GC07634EFD29EN

Abstracts

According to our (Global Info Research) latest study, the global Chiral Phosphoric Acid market size was valued at US\$ 55.77 million in 2025 and is forecast to a readjusted size of US\$ 93.68 million by 2032 with a CAGR of 7.7% during review period.

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 is a detailed and comprehensive analysis for global Chiral Phosphoric Acid market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Catalyst Scaffold and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Chiral Phosphoric Acid market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Chiral Phosphoric Acid market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Chiral Phosphoric Acid market size and forecasts, by Catalyst Scaffold and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Chiral Phosphoric Acid market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Chiral Phosphoric Acid

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Chiral Phosphoric Acid market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Chiral Phosphoric Acid market is split by Catalyst Scaffold and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Catalyst Scaffold, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Catalyst Scaffold

BINOL-derived CPAs

TRIP-type BINOL CPAs

H8-BINOL-derived CPAs

SPINOL-derived CPAs

Market segment by Substitution Pattern

Unsubstituted Parent CPAs

3,3'-Aryl-substituted CPAs

3,3'-Bulky Alkyl/Aryl CPAs

Market segment by Purity

Research Grade 95%-97%

High Purity Grade ≥98%

High ee Grade ≥99%ee

Market segment by Application

Pharmaceutical Route Screening

Academic Methodology Research

Fine Chemical / Agrochemical Synthesis

Major players covered

Daicel Chiral Technologies

Strem Chemicals

Tokyo Chemical Industry Co., Ltd.

BLD Pharmatech Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Chiral Phosphoric Acid product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Chiral Phosphoric Acid, with price, sales quantity, revenue, and global market share of Chiral Phosphoric Acid from 2021 to 2026.

Chapter 3, the Chiral Phosphoric Acid competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Chiral Phosphoric Acid breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Catalyst Scaffold and by Application, with sales market share and growth rate by Catalyst Scaffold, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Chiral Phosphoric Acid market forecast, by regions, by Catalyst Scaffold, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Chiral Phosphoric Acid.

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