

Chemical Logistics Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Road, Rail, Sea, Air), By Service (Transportation, Warehousing, Distribution, Value-Based Services), By Application (Chemical, Pharmaceutical, Cosmetic, Oil and Gas, Specialty Chemicals, Food, Others), By Region, By Competition, 2020-2030F

Market Report | 2025-06-13 | 186 pages | TechSci Research

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Report description:

Market Overview

The Global Chemical Logistics Market was valued at USD 245.2 billion in 2024 and is projected to reach USD 324.0 billion by 2030, growing at a CAGR of 4.6% during the forecast period. This market is being propelled by the ongoing expansion of the chemical manufacturing industry, particularly in emerging markets, where demand for specialized logistics is intensifying. Industries such as agriculture, pharmaceuticals, and consumer goods increasingly rely on efficient supply chains for chemical distribution. Technological innovations like IoT, AI, and blockchain are enhancing transparency and safety in logistics. Environmental regulations are also driving investments in compliant logistics systems. Outsourcing to third-party logistics providers is gaining traction, allowing manufacturers to focus on core functions while accessing expert logistics support. With international trade on the rise-especially in Asia-Pacific-cross-border logistics services are becoming crucial. Additionally, sustainability initiatives are prompting the adoption of eco-friendly logistics practices, reshaping the global chemical logistics landscape

Key Market Drivers

Rapid Expansion of the Chemical Manufacturing Industry and Increasing Demand Across End-Use Sectors

The chemical manufacturing sector is undergoing significant growth, particularly in developing regions such as China, India, and Southeast Asia, driven by increased industrialization, urbanization, and infrastructure investment. Chemicals serve as vital inputs across multiple sectors-including agriculture, pharmaceuticals, automotive, construction, and consumer products-heightening the importance of robust and specialized logistics networks. These chemicals often require precise storage, handling, and transport

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conditions due to their hazardous or sensitive nature. As demand grows, manufacturers increasingly seek integrated logistics solutions offering packaging, warehousing, and last-mile delivery. Global supply chain complexity and rising international trade necessitate infrastructure capable of managing large volumes and diverse chemical types. In sectors like agriculture and pharmaceuticals, timely and safe delivery of chemical inputs such as fertilizers and medical compounds is essential. The cosmetics and cleaning product industries also add to this demand, reinforcing the need for dependable logistics services.

Key Market Challenges

Complex Regulatory Landscape and Compliance Burdens

Navigating the intricate and evolving regulatory environment remains a major hurdle for the global chemical logistics sector. Handling hazardous or toxic chemicals demands adherence to rigorous safety and environmental regulations imposed by various national and international bodies. These include frameworks like the Globally Harmonized System (GHS), the IMDG Code, and other local standards that specify guidelines for labeling, packaging, transport, and storage. Each region enforces its own regulatory nuances, compelling logistics providers to maintain in-depth expertise and flexibility to ensure compliance. Failing to meet these standards can result in costly penalties, shipment delays, and reputational harm. More critically, non-compliance can cause safety incidents and environmental damage. To manage these risks, logistics companies must continuously invest in training, infrastructure, and detailed documentation, significantly increasing operational complexity and cost.

Key Market Trends

Digital Transformation and Integration of Advanced Technologies

The global chemical logistics market is experiencing a significant shift with the integration of digital technologies designed to boost efficiency, safety, and transparency. Innovations such as IoT, AI, blockchain, and big data analytics are being deployed to modernize supply chains. IoT-enabled sensors and GPS trackers are critical for real-time tracking of shipments, monitoring parameters like temperature and pressure to ensure safe handling of sensitive chemicals. This continuous monitoring enables swift responses to anomalies, reducing spoilage and risk. AI-powered analytics help optimize delivery routes, forecast disruptions, and support maintenance planning, enhancing operational resilience and reducing downtime. These advancements collectively support a more responsive, data-driven, and sustainable logistics framework tailored for the chemical industry.

Key Market Players

- Agility Public Warehousing Co.
- BDP International Inc.
- C.H. Robinson Worldwide Inc.
- DB Schenker
- DHL Group
- DSV Panalpina AS
- FedEx Corp.
- Montreal Chemical Logistics

Report Scope:

In this report, the Global Chemical Logistics Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- Chemical Logistics Market, By Type:

- o Road
- o Rail
- o Sea
- o Air

- Chemical Logistics Market, By Application:

- o Chemical
- o Pharmaceutical
- o Cosmetic
- o Oil and Gas
- o Specialty Chemicals

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- o Food
- o Others
- Chemical Logistics Market, By Service:
 - o Transportation
 - o Warehousing
 - o Distribution
 - o Value-Based Services
- Chemical Logistics Market, By Region:
 - o North America
 - United States
 - Canada
 - Mexico
 - o Europe
 - Germany
 - France
 - United Kingdom
 - Italy
 - Spain
 - o Asia Pacific
 - China
 - India
 - Japan
 - South Korea
 - Australia
 - o South America
 - Brazil
 - Colombia
 - Argentina
 - o Middle East & Africa
 - Saudi Arabia
 - UAE
 - South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Chemical Logistics Market.

Available Customizations:

Global Chemical Logistics 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).

Table of 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

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- 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/Countries
 - 3.5. Overview of Market Drivers, Challenges, and Trends
- 4. Voice of Customer
- 5. Global Chemical Logistics Market Outlook
 - 5.1. Market Size & Forecast
 - 5.1.1. By Value
 - 5.2. Market Share & Forecast
 - 5.2.1. By Type (Road, Rail, Sea, Air)
 - 5.2.2. By Application (Chemical, Pharmaceutical, Cosmetic, Oil and Gas, Specialty Chemicals, Food, Others)
 - 5.2.3. By Service (Transportation, Warehousing, Distribution, Value-Based Services)
 - 5.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)
 - 5.3. By Company (2024)
 - 5.4. Market Map
- 6. North America Chemical Logistics Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value
 - 6.2. Market Share & Forecast
 - 6.2.1. By Type
 - 6.2.2. By Application
 - 6.2.3. By Service
 - 6.2.4. By Country
 - 6.3. North America: Country Analysis
 - 6.3.1. United States Chemical Logistics Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Type
 - 6.3.1.2.2. By Application
 - 6.3.1.2.3. By Service
 - 6.3.2. Canada Chemical Logistics Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Type

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- 6.3.2.2.2. By Application
- 6.3.2.2.3. By Service
- 6.3.3. Mexico Chemical Logistics Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Type
 - 6.3.3.2.2. By Application
 - 6.3.3.2.3. By Service
- 7. Europe Chemical Logistics Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value
 - 7.2. Market Share & Forecast
 - 7.2.1. By Type
 - 7.2.2. By Application
 - 7.2.3. By Service
 - 7.2.4. By Country
 - 7.3. Europe: Country Analysis
 - 7.3.1. Germany Chemical Logistics Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Type
 - 7.3.1.2.2. By Application
 - 7.3.1.2.3. By Service
 - 7.3.2. France Chemical Logistics Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Type
 - 7.3.2.2.2. By Application
 - 7.3.2.2.3. By Service
 - 7.3.3. United Kingdom Chemical Logistics Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Type
 - 7.3.3.2.2. By Application
 - 7.3.3.2.3. By Service
 - 7.3.4. Italy Chemical Logistics Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Type
 - 7.3.4.2.2. By Application
 - 7.3.4.2.3. By Service
 - 7.3.5. Spain Chemical Logistics Market Outlook

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- 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
- 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Type
 - 7.3.5.2.2. By Application
 - 7.3.5.2.3. By Service
- 8. Asia Pacific Chemical Logistics Market Outlook
 - 8.1. Market Size & Forecast
 - 8.1.1. By Value
 - 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By Application
 - 8.2.3. By Service
 - 8.2.4. By Country
 - 8.3. Asia Pacific: Country Analysis
 - 8.3.1. China Chemical Logistics Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Type
 - 8.3.1.2.2. By Application
 - 8.3.1.2.3. By Service
 - 8.3.2. India Chemical Logistics Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Type
 - 8.3.2.2.2. By Application
 - 8.3.2.2.3. By Service
 - 8.3.3. Japan Chemical Logistics Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Type
 - 8.3.3.2.2. By Application
 - 8.3.3.2.3. By Service
 - 8.3.4. South Korea Chemical Logistics Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Type
 - 8.3.4.2.2. By Application
 - 8.3.4.2.3. By Service
 - 8.3.5. Australia Chemical Logistics Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast

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- 8.3.5.2.1. By Type
- 8.3.5.2.2. By Application
- 8.3.5.2.3. By Service
- 9. Middle East & Africa Chemical Logistics Market Outlook
- 9.1. Market Size & Forecast
- 9.1.1. By Value
- 9.2. Market Share & Forecast
- 9.2.1. By Type
- 9.2.2. By Application
- 9.2.3. By Service
- 9.2.4. By Country
- 9.3. Middle East & Africa: Country Analysis
- 9.3.1. Saudi Arabia Chemical Logistics Market Outlook
- 9.3.1.1. Market Size & Forecast
- 9.3.1.1.1. By Value
- 9.3.1.2. Market Share & Forecast
- 9.3.1.2.1. By Type
- 9.3.1.2.2. By Application
- 9.3.1.2.3. By Service
- 9.3.2. UAE Chemical Logistics Market Outlook
- 9.3.2.1. Market Size & Forecast
- 9.3.2.1.1. By Value
- 9.3.2.2. Market Share & Forecast
- 9.3.2.2.1. By Type
- 9.3.2.2.2. By Application
- 9.3.2.2.3. By Service
- 9.3.3. South Africa Chemical Logistics Market Outlook
- 9.3.3.1. Market Size & Forecast
- 9.3.3.1.1. By Value
- 9.3.3.2. Market Share & Forecast
- 9.3.3.2.1. By Type
- 9.3.3.2.2. By Application
- 9.3.3.2.3. By Service
- 10. South America Chemical Logistics Market Outlook
- 10.1. Market Size & Forecast
- 10.1.1. By Value
- 10.2. Market Share & Forecast
- 10.2.1. By Type
- 10.2.2. By Application
- 10.2.3. By Service
- 10.2.4. By Country
- 10.3. South America: Country Analysis
- 10.3.1. Brazil Chemical Logistics Market Outlook
- 10.3.1.1. Market Size & Forecast
- 10.3.1.1.1. By Value
- 10.3.1.2. Market Share & Forecast
- 10.3.1.2.1. By Type

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- 10.3.1.2.2. By Application
- 10.3.1.2.3. By Service
- 10.3.2. Colombia Chemical Logistics Market Outlook
- 10.3.2.1. Market Size & Forecast
- 10.3.2.1.1. By Value
- 10.3.2.2. Market Share & Forecast
- 10.3.2.2.1. By Type
- 10.3.2.2.2. By Application
- 10.3.2.2.3. By Service
- 10.3.3. Argentina Chemical Logistics Market Outlook
- 10.3.3.1. Market Size & Forecast
- 10.3.3.1.1. By Value
- 10.3.3.2. Market Share & Forecast
- 10.3.3.2.1. By Type
- 10.3.3.2.2. By Application
- 10.3.3.2.3. By Service
- 11. Market Dynamics
- 11.1. Drivers
- 11.2. Challenges
- 12. Market Trends and Developments
- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments
- 13. Company Profiles
- 13.1. Agility Public Warehousing Co.
- 13.1.1. Business Overview
- 13.1.2. Key Revenue and Financials
- 13.1.3. Recent Developments
- 13.1.4. Key Personnel
- 13.1.5. Key Product/Services Offered
- 13.2. BDP International Inc.
- 13.3. C.H. Robinson Worldwide Inc.
- 13.4. DB Schenker
- 13.5. DHL Group
- 13.6. DSV Panalpina AS
- 13.7. FedEx Corp.
- 13.8. Montreal Chemical Logistics
- 14. Strategic Recommendations
- 15. About Us & Disclaimer

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