

Carbon Disulfide Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Sales Channels (Direct, and Indirect), By End User (Viscose Rayon, Agrochemicals, Others {Rubber, Carbon Tetrachloride}), By Region and competition, 2020-2030F

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Report description:

Market Overview

Carbon Disulfide Market was valued at USD 229.86 Million in 2024 and is expected to reach USD 271.64 Million by 2030 with a CAGR of 2.86%. Carbon disulfide (CS₂) is a highly volatile and flammable chemical compound with critical applications across multiple industrial sectors. It is primarily manufactured by reacting sulfur vapor with hot charcoal and is widely used in the production of viscose rayon, cellophane, rubber chemicals, and pesticides. As a key raw material, its demand is driven by industries such as chemicals, textiles, agriculture, and mining.

One of the most prominent uses of carbon disulfide is in the textile industry, particularly in the production of viscose rayon and cellophane fibers. This application has historically contributed to the compound's steady demand, especially in emerging economies where textile manufacturing is expanding. In agriculture, carbon disulfide is integral in formulating dithiocarbamate pesticides, which are essential for effective pest and weed control. The mining sector utilizes carbon disulfide in the extraction of valuable ores such as gold and copper, further supporting its industrial relevance. Asia-Pacific dominates the global carbon disulfide market, led by China and supported by Australia. China's leadership in packaging and fiber production, coupled with favorable government regulations and industrial policies, has bolstered its position in the market.

Key Market Drivers

Growing Demand for Chemical Manufacturing is Major Factor for Carbon Disulfide Market Growth

The global carbon disulfide market is experiencing notable growth, primarily fueled by the rising demand across various chemical manufacturing processes. Carbon disulfide (CS₂) is a versatile and indispensable compound, playing a critical role in the synthesis of a wide range of chemical products and serving as a fundamental driver of market expansion. A key factor contributing to this

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growth is the compound's application in the production of cellulose-based products, such as rayon and cellophane. These materials are widely utilized in the textile, packaging, and industrial sectors. Carbon disulfide is an essential reagent in the viscose process, enabling the transformation of cellulose into fibers and films. With increasing global demand for cellulosic materials, particularly in the textile industry, carbon disulfide consumption is expected to rise accordingly.

In the rubber industry, carbon disulfide is vital in manufacturing rubber accelerators and vulcanization agents, which significantly improve rubber properties, such as elasticity, durability, and thermal resistance. The tire industry, in particular, heavily depends on carbon disulfide-based chemicals to enhance tire performance. As automotive production expands globally, the demand for tires and related rubber products continues to drive carbon disulfide consumption. The compound is also widely used in the agricultural sector, where it plays a key role in the production of agrochemicals, including pesticides and herbicides.

Dithiocarbamate-based fungicides, synthesized using carbon disulfide, are extensively applied in crop protection. As global food demand rises, the need for effective pest control solutions is expected to further support the market.

Carbon disulfide is integral in the production of specialty chemicals such as intermediates, additives, and surfactants. These chemicals are utilized across industries including pharmaceuticals, cosmetics, and plastics. Its versatility as a precursor allows manufacturers to tailor products to specific end-use requirements. Carbon disulfide is used in the production of various industrial chemicals such as sulfuric acid, carbon tetrachloride, and thionyl chloride, which are essential for applications in mining, metallurgy, and electronics. Carbon disulfide's broad utility across sectors-ranging from textiles and rubber to agriculture and specialty chemicals-positions it as a cornerstone of global chemical manufacturing. As these industries grow and evolve, the demand for carbon disulfide is expected to remain strong, underpinning continued innovation and industrial advancement.

Key Market Challenges

Volatility in Raw Material Prices

The global Carbon Disulfide market is facing significant obstacles, with one of the primary challenges being the volatility in raw material prices. Carbon Disulfide is a crucial chemical compound used in various industries, including the production of rayon, cellophane, and agricultural chemicals. However, its production relies heavily on the availability and pricing of raw materials, particularly sulfur and methane.

Fluctuations in the prices of these key feedstocks can significantly impact the production cost of Carbon Disulfide. Sulfur prices, in particular, can be highly volatile due to factors like supply disruptions, geopolitical tensions, and changing demand patterns. This volatility disrupts the stability of the Carbon Disulfide market and makes it challenging for manufacturers to plan production and pricing strategies. The Carbon Disulfide industry is also influenced by environmental regulations and sustainability concerns, which can lead to further uncertainty in raw material sourcing and production processes.

To mitigate the impact of raw material price volatility, companies in the Carbon Disulfide market are exploring strategies such as diversifying raw material sources, optimizing production processes, and adopting sustainable practices. These efforts aim to create a more stable and resilient industry that can better navigate the challenges posed by fluctuations in raw material prices, ensuring consistent supply and market growth in the future.

Key Market Trends

Sustainable Production

Sustainable production practices have emerged as a pivotal trend driving the growth of the global Carbon Disulfide market. In response to growing environmental concerns and stringent regulations, the industry is increasingly focusing on reducing its environmental footprint and enhancing sustainability across the production lifecycle of Carbon Disulfide.

One of the key aspects of sustainable production is minimizing emissions and pollution during Carbon Disulfide manufacturing processes. Companies are investing in advanced technologies and process improvements to reduce the release of toxic gases and pollutants, mitigating the environmental impact. Sustainable production includes responsible sourcing of raw materials, such as sulfur, to ensure a stable and eco-friendly supply chain. Companies are exploring options for sustainable sulfur extraction and seeking environmentally friendly alternatives. Efforts are also underway to optimize energy usage, reduce waste generation, and adopt circular economy principles within the Carbon Disulfide production industry. These initiatives not only promote environmental sustainability but also contribute to cost savings and operational efficiency.

As sustainability becomes a core value in today's industries, manufacturers in the Carbon Disulfide market are aligning their strategies with these principles. Sustainable production practices not only address environmental concerns but also enhance

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market competitiveness by appealing to eco-conscious consumers and complying with stringent regulations. Consequently, sustainable production is poised to be a driving force behind the continued growth and relevance of the global Carbon Disulfide market.

Key Market Players

- [] Seidler Chemical Co
- [] Liaoning Ruixing Chemical Co., Ltd.
- [] Indo Baijin Chemicals Pvt. Ltd.
- [] Grasim Industries Limited
- [] UPL Limited
- [] Nouryon Functional Chemicals GmbH
- [] Arkema Group
- [] Shanghai Baijin Chemical Group Co. Ltd.
- [] GFS Chemicals Inc.
- [] Merck KGaA

Report Scope:

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

- [] Carbon Disulfide Market, By Sales Channels:

- o Direct
- o Indirect

- [] Carbon Disulfide Market, By End User:

- o Viscose Rayon
- o Agrochemicals
- o Others (Rubber Carbon, Tetrachloride)

- [] Carbon Disulfide Market, By Region:

- o Asia-Pacific
 - ? China
 - ? India
 - ? Japan
 - ? Australia
 - ? South Korea
- o North America
 - ? United States
 - ? Canada
 - ? Mexico
- o Europe
 - ? France
 - ? United Kingdom
 - ? Italy
 - ? Germany
 - ? Spain
- o South America
 - ? Brazil
 - ? Argentina
 - ? Colombia
- o Middle East & Africa
 - ? South Africa

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? Saudi Arabia

? UAE

? Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Carbon Disulfide Market.

Available Customizations:

Global Carbon Disulfide market report with the given market data, TechSci 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).

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