Artificial Intelligence (AI) in Chemicals Market Size, Share, Trends and Forecast to 2030 at 4% CAGR

The Business Research Company's Artificial Intelligence (AI) in Chemicals Market Size, Share, Trends and Forecast to 2030 at 4% CAGR



The Business Research Company

LONDON, GREATER LONDON, UNITED KINGDOM, October 13, 2026 /EINPresswire.com/ -- "The use of artificial intelligence (AI) in the chemical industry is rapidly transforming how research, development, and production are carried out. By leveraging AI, chemical companies can boost efficiency, accelerate innovation, and make smarter decisions. This technology-driven shift is reshaping the market landscape and opening new opportunities for growth. Below is an in-depth look at the current market size, driving factors, regional outlook, and emerging trends shaping the future of AI in chemicals.

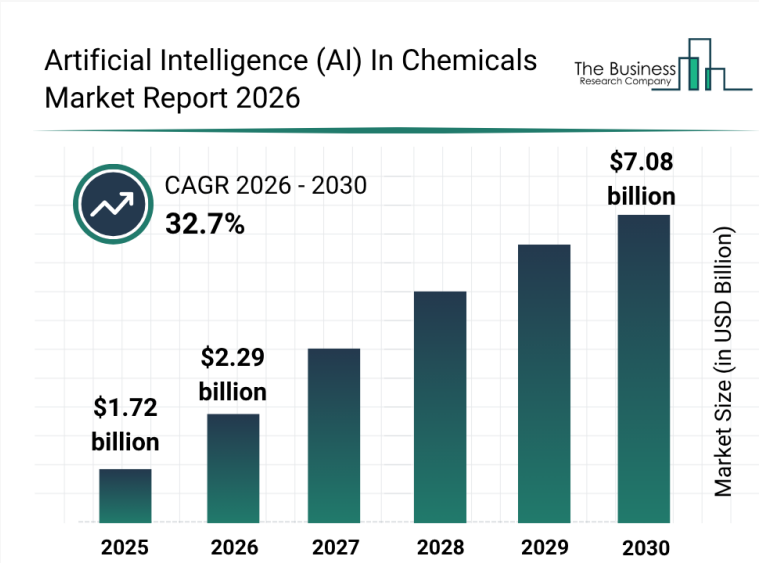
> Expected to grow to $7.08 billion in 2030 at a compound annual growth rate (CAGR) of 32.7%”
>
> *The Business Research Company*

Current Market Size and Future Growth of the Artificial Intelligence in Chemicals Market
The artificial intelligence in chemicals market has experienced significant growth in recent years. It is projected to rise from $1.72 billion in 2025 to $2.29 billion in 2026, reflecting a robust compound annual growth rate (CAGR) of 33.1%. This historic expansion is mainly fueled by the increasing demand for faster chemical research, the need to improve chemical process efficiency, the surge in available chemical research data, the push for optimized resource use, and a heightened demand for precise chemical property analysis.

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Looking ahead, the market is expected to continue its rapid ascent, reaching $7.08 billion by

2030 with a sustained CAGR of 32.7%. Growth during this forecast period will be driven by rising adoption of AI for molecule discovery, predictive process optimization, accelerated chemical product development, AI-enabled formulation design, and automated chemical decision-making. Key trends shaping the market include greater use of AI for predicting chemical properties, enhanced predictive chemical modeling, formulation optimization, automation of research workflows, and AI-driven prediction of reaction outcomes.



Artificial Intelligence (AI) In Chemicals Market Overview

Understanding Artificial Intelligence in the Chemicals Sector
Artificial intelligence in chemicals involves applying AI technologies to streamline and enhance various stages of chemical research, development, manufacturing, and operations. These technologies allow for sophisticated data analysis, predictive modeling, process improvements, and automation of complex workflows. As a result, AI helps chemical companies improve operational efficiency, speed up innovation, make better decisions, and more effectively manage their resources across the value chain.

View the full artificial intelligence (ai) in chemicals market report: https://www.thebusinessresearchcompany.com/report/artificial-intelligence-ai-in-chemicals-market-report?utm_source=EINPresswire&utm_medium=Paid&utm_campaign=Oct_PR

Industry 4.0 Technologies as a Major Growth Catalyst for AI in Chemicals
One of the primary drivers of the AI in chemicals market is the growing integration of Industry 4.0 technologies. Industry 4.0 represents the incorporation of advanced digital innovations such as AI, machine learning, the internet of things (IoT), automation, and data analytics into industrial processes with the goal of boosting efficiency, productivity, and decision-making. Chemical manufacturers are increasingly adopting these technologies to optimize their production processes through real-time data monitoring and analytics.

Industry 4.0 provides the essential infrastructure for AI to thrive within the chemicals sector by enabling connected systems and advanced data insights. For example, according to Rockwell Automation Inc. in March 2024, 83% of manufacturers recognize AI as a leading capability for driving business impact, with many expecting to implement generative AI (GenAI) technologies. Additionally, 95% of manufacturers are either currently using or evaluating smart manufacturing solutions, up from 84% in 2023. This rising trend in Industry 4.0 adoption is a key factor

propelling the expansion of AI applications in the chemical industry.

Asia-Pacific Leading as the Fastest Growing Region in the Artificial Intelligence in Chemicals Market
In 2025, North America held the largest share of the artificial intelligence in chemicals market. However, during the forecast period, the Asia-Pacific region is anticipated to become the fastest growing market. The comprehensive market report examines key geographies including Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a broad perspective on regional market dynamics and growth prospects.

New analytical features added to our 2026 market reports:

• Market attractiveness scoring and analysis
• Total addressable market (TAM) analysis
• Company scoring matrix graphics and tables
• Excel-based forecasting dashboards
• Market hotspots infographics
• Key technologies and future trend analysis
• Updated graphics and tables

Speak With Our Expert:
Saumya Sahay
Americas +1 310-496-7795
Asia +44 7882 955267 & +91 8897263534
Europe +44 7882 955267
Email: marketing@tbrc.info

The Business Research Company - www.thebusinessresearchcompany.com

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Oliver Guirdham
The Business Research Company
7882 955267
info@tbrc.info
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