

# **Global Semiconductor Chemicals Market Size study, by Type (High-performance Polymers, Acid & Base Chemicals, Adhesives, Solvents, Others) by End-use (Integrated Circuits, Discrete Semiconductor, Optoelectronics, Sensors) and Regional Forecasts 2022-2032**

<https://marketpublishers.com/r/G35A50904300EN.html>

Date: June 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G35A50904300EN

## **Abstracts**

Global Semiconductor Chemicals Market is valued approximately USD 13.52 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 11.90% over the forecast period 2024-2032. Semiconductor chemicals are essential materials used in the manufacturing processes of semiconductors, which are integral components of electronic devices. These chemicals play a crucial role in various stages of semiconductor fabrication, including cleaning, etching, deposition, and polishing. They are formulated to meet stringent purity and performance requirements to ensure the precise fabrication of semiconductor components with minimal defects. Semiconductor chemicals encompass a wide range of substances, including acids, solvents, gases, and dopants, each tailored to specific applications and processes within the semiconductor industry. The semiconductor industry is moving towards smaller feature sizes and finer structures to increase device performance and packing density. This trend requires precise control over material deposition, etching, and cleaning processes, gaining attraction in the market.

The Global Semiconductor Chemicals Market is experiencing robust growth, driven by factors such as escalating demand for electronic devices across various industries, including consumer electronics, automotive, healthcare, and telecommunications, is fueling the expansion of the semiconductor industry. This surge in demand necessitates the production of increasingly complex and sophisticated semiconductor components,

driving the need for specialized chemicals used in their manufacturing processes. Additionally, rapid technological advancements in semiconductor fabrication techniques, such as the development of smaller feature sizes, three-dimensional architectures, and materials, require advanced chemicals for processes such as cleaning, etching, deposition, and planarization. Furthermore, the proliferation of emerging technologies such as artificial intelligence (AI), the Internet of Things (IoT), 5G connectivity, and autonomous vehicles is driving the demand for semiconductor chemicals. However, high research and development costs as well as stringent environmental regulations governing the use, handling, and disposal of chemicals in semiconductor manufacturing, on the other hand, would stifle market growth between 2022 and 2032.

The key regions considered for the global Semiconductor Chemicals market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, Asia Pacific was the largest regional market in terms of revenue. The regional market demonstrates ongoing expansion, driven by technological progress and a dedicated commitment to satisfying the escalating need for semiconductor materials across diverse end-user sectors. The region's prominence in silicon-based microprocessor chips and its significant contribution to the global microprocessor chips market underscore its stature in the semiconductor materials domain. The market in Europe, on the other hand, is expected to develop at the fastest rate over the forecast period.

Major market player included in this report are:

Taiwan Semiconductor Manufacturing Company Limited

BASF SE

Eastman Chemical Company

FUJIFILM Corporation

Honeywell International Inc.

Linde PLC

Solvay S.A

VWR International, LLC.

Entegris Inc.

SK Inc.

The detailed segments and sub-segment of the market are explained below:

By Type

High-performance Polymers

Acid & Base Chemicals  
Adhesives  
Solvents  
Others

By End Use  
Integrated Circuits  
Discrete Semiconductor  
Optoelectronics  
Sensors

By Region:  
North America  
U.S.  
Canada  
Europe  
UK  
Germany  
France  
Spain  
Italy  
ROE  
Asia Pacific  
China  
India  
Japan  
Australia  
South Korea  
RoAPAC  
Latin America  
Brazil  
Mexico  
Middle East & Africa  
Saudi Arabia  
South Africa  
RoMEA

Years considered for the study are as follows:  
Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market

## Contents

### **CHAPTER 1. GLOBAL SEMICONDUCTOR CHEMICALS MARKET DEFINITION AND RESEARCH ASSUMPTIONS**

- 1.1. Research Objective
- 1.2. Market Definition
- 1.3. Research Assumptions
  - 1.3.1. Inclusion & Exclusion
  - 1.3.2. Limitations
  - 1.3.3. Supply Side Analysis
    - 1.3.3.1. Availability
    - 1.3.3.2. Infrastructure
    - 1.3.3.3. Regulatory Environment
    - 1.3.3.4. Market Competition
    - 1.3.3.5. Economic Viability (Consumer's Perspective)
  - 1.3.4. Demand Side Analysis
    - 1.3.4.1. Regulatory frameworks
    - 1.3.4.2. Technological Advancements
    - 1.3.4.3. Environmental Considerations
    - 1.3.4.4. Consumer Awareness & Acceptance
- 1.4. Estimation Methodology
- 1.5. Years Considered for the Study
- 1.6. Currency Conversion Rates

### **CHAPTER 2. EXECUTIVE SUMMARY**

- 2.1. Global Semiconductor Chemicals Market Size & Forecast (2022- 2032)
- 2.2. Regional Summary
- 2.3. Segmental Summary
  - 2.3.1. By Type
  - 2.3.2. By End-use
- 2.4. Key Trends
- 2.5. Recession Impact
- 2.6. Analyst Recommendation & Conclusion

### **CHAPTER 3. GLOBAL SEMICONDUCTOR CHEMICALS MARKET DYNAMICS**

- 3.1. Market Drivers

- 3.2. Market Challenges
- 3.3. Market Opportunities

## **CHAPTER 4. GLOBAL SEMICONDUCTOR CHEMICALS MARKET INDUSTRY ANALYSIS**

- 4.1. Porter's 5 Force Model
  - 4.1.1. Bargaining Power of Suppliers
  - 4.1.2. Bargaining Power of Buyers
  - 4.1.3. Threat of New Entrants
  - 4.1.4. Threat of Substitutes
  - 4.1.5. Competitive Rivalry
  - 4.1.6. Futuristic Approach to Porter's 5 Force Model
  - 4.1.7. Porter's 5 Force Impact Analysis
- 4.2. PESTEL Analysis
  - 4.2.1. Political
  - 4.2.2. Economical
  - 4.2.3. Social
  - 4.2.4. Technological
  - 4.2.5. Environmental
  - 4.2.6. Legal
- 4.3. Top investment opportunity
- 4.4. Top winning strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL SEMICONDUCTOR CHEMICALS MARKET SIZE & FORECASTS BY TYPE 2022-2032**

- 5.1. High-performance Polymers
- 5.2. Acid & Base Chemicals
- 5.3. Adhesives
- 5.4. Solvents
- 5.5. Others

## **CHAPTER 6. GLOBAL SEMICONDUCTOR CHEMICALS MARKET SIZE & FORECASTS BY END-USE 2022-2032**

- 6.1. Integrated Circuits
- 6.2. Discrete Semiconductor
- 6.3. Optoelectronics
- 6.4. Sensors

## **CHAPTER 7. GLOBAL SEMICONDUCTOR CHEMICALS MARKET SIZE & FORECASTS BY REGION 2022-2032**

- 7.1. North America Semiconductor Chemicals Market
  - 7.1.1. U.S. Semiconductor Chemicals Market
    - 7.1.1.1. Type breakdown size & forecasts, 2022-2032
    - 7.1.1.2. End-use breakdown size & forecasts, 2022-2032
  - 7.1.2. Canada Semiconductor Chemicals Market
- 7.2. Europe Semiconductor Chemicals Market
  - 7.2.1. U.K. Semiconductor Chemicals Market
  - 7.2.2. Germany Semiconductor Chemicals Market
  - 7.2.3. France Semiconductor Chemicals Market
  - 7.2.4. Spain Semiconductor Chemicals Market
  - 7.2.5. Italy Semiconductor Chemicals Market
  - 7.2.6. Rest of Europe Semiconductor Chemicals Market
- 7.3. Asia-Pacific Semiconductor Chemicals Market
  - 7.3.1. China Semiconductor Chemicals Market
  - 7.3.2. India Semiconductor Chemicals Market
  - 7.3.3. Japan Semiconductor Chemicals Market
  - 7.3.4. Australia Semiconductor Chemicals Market
  - 7.3.5. South Korea Semiconductor Chemicals Market
  - 7.3.6. Rest of Asia Pacific Semiconductor Chemicals Market
- 7.4. Latin America Semiconductor Chemicals Market
  - 7.4.1. Brazil Semiconductor Chemicals Market
  - 7.4.2. Mexico Semiconductor Chemicals Market
  - 7.4.3. Rest of Latin America Semiconductor Chemicals Market
- 7.5. Middle East & Africa Semiconductor Chemicals Market
  - 7.5.1. Saudi Arabia Semiconductor Chemicals Market
  - 7.5.2. South Africa Semiconductor Chemicals Market
  - 7.5.3. Rest of Middle East & Africa Semiconductor Chemicals Market

## **CHAPTER 8. COMPETITIVE INTELLIGENCE**

- 8.1. Key Company SWOT Analysis

- 8.1.1. Company
- 8.1.2. Company
- 8.1.3. Company
- 8.2. Top Market Strategies
- 8.3. Company Profiles
  - 8.3.1. Taiwan Semiconductor Manufacturing Company Limited
    - 8.3.1.1. Key Information
    - 8.3.1.2. Overview
    - 8.3.1.3. Financial (Subject to Data Availability)
    - 8.3.1.4. Product Summary
    - 8.3.1.5. Market Strategies
  - 8.3.2. BASF SE
  - 8.3.3. Eastman Chemical Company
  - 8.3.4. FUJIFILM Corporation
  - 8.3.5. Honeywell International Inc.
  - 8.3.6. Linde PLC
  - 8.3.7. Solvay S.A
  - 8.3.8. VWR International, LLC.
  - 8.3.9. Entegris Inc
  - 8.3.10. SK Inc.

## **CHAPTER 9. RESEARCH PROCESS**

- 9.1. Research Process
  - 9.1.1. Data Mining
  - 9.1.2. Analysis
  - 9.1.3. Market Estimation
  - 9.1.4. Validation
  - 9.1.5. Publishing
- 9.2. Research Attributes



## List Of Tables

### LIST OF TABLES

TABLE 1. Global Semiconductor Chemicals market, report scope

TABLE 2. Global Semiconductor Chemicals market estimates & forecasts by Region 2022-2032 (USD Billion)

TABLE 3. Global Semiconductor Chemicals market estimates & forecasts by Type 2022-2032 (USD Billion)

TABLE 4. Global Semiconductor Chemicals market estimates & forecasts by End-use 2022-2032 (USD Billion)

TABLE 5. Global Semiconductor Chemicals market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 6. Global Semiconductor Chemicals market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 7. Global Semiconductor Chemicals market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 8. Global Semiconductor Chemicals market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 9. Global Semiconductor Chemicals market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 10. Global Semiconductor Chemicals market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 11. Global Semiconductor Chemicals market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 12. Global Semiconductor Chemicals market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 13. Global Semiconductor Chemicals market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 14. Global Semiconductor Chemicals market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 15. U.S. Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 16. U.S. Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 17. U.S. Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 18. Canada Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 19. Canada Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 20. Canada Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 21. UK Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 22. UK Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 23. UK Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 24. Germany Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 25. Germany Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 26. Germany Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 27. France Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 28. France Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 29. France Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 30. Italy Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 31. Italy Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 32. Italy Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 33. Spain Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 34. Spain Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 35. Spain Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 36. RoE Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 37. RoE Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 38. RoE Semiconductor Chemicals market estimates & forecasts by segment

2022-2032 (USD Billion)

TABLE 39. China Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 40. China Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 41. China Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 42. India Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 43. India Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 44. India Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 45. Japan Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 46. Japan Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 47. Japan Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 48. Australia Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 49. Australia Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 50. Australia Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 51. South Korea Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 52. South Korea Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 53. South Korea Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 54.

TABLE 55. RoAPAC Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 56. RoAPAC Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 57. RoAPAC Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 58. Brazil Semiconductor Chemicals market estimates & forecasts, 2022-2032

(USD Billion)

TABLE 59. Brazil Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 60. Brazil Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 61. Mexico Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 62. Mexico Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 63. Mexico Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 64. RoLA Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 65. RoLA Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 66. RoLA Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 67. Saudi Arabia Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 68. Saudi Arabia Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 69. Saudi Arabia Semiconductor Chemicals market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 70. South Africa Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 71.

TABLE 72. South Africa Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 73. South Africa Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 74. RoMEA Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 75. RoMEA Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 76. RoMEA Semiconductor Chemicals market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 77. List of secondary sources, used in the study of Global Semiconductor Chemicals Market.

TABLE 78. List of primary sources, used in the study of Global Semiconductor

Chemicals Market.

TABLE 79. Years considered for the study.

TABLE 80. Exchange rates considered

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Semiconductor Chemicals market, research methodology
- FIG 2. Global Semiconductor Chemicals market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global Semiconductor Chemicals market, key trends 2023
- FIG 5. Global Semiconductor Chemicals market, growth prospects 2022-2032
- FIG 6. Global Semiconductor Chemicals market, porters 5 force model
- FIG 7. Global Semiconductor Chemicals market, pestel analysis
- FIG 8. Global Semiconductor Chemicals market, value chain analysis
- FIG 9. Global Semiconductor Chemicals market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Semiconductor Chemicals market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global Semiconductor Chemicals market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global Semiconductor Chemicals market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global Semiconductor Chemicals market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global Semiconductor Chemicals market, regional snapshot 2022 & 2032
- FIG 15. North America Semiconductor Chemicals market 2022 & 2032 (USD Billion)
- FIG 16. Europe Semiconductor Chemicals market 2022 & 2032 (USD Billion)
- FIG 17. Asia pacific Semiconductor Chemicals market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Semiconductor Chemicals market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Semiconductor Chemicals market 2022 & 2032 (USD Billion)
- FIG 20. Global Semiconductor Chemicals market, company market share analysis (2023)

## I would like to order

Product name: Global Semiconductor Chemicals Market Size study, by Type (High-performance Polymers, Acid & Base Chemicals, Adhesives, Solvents, Others) by End-use (Integrated Circuits, Discrete Semiconductor, Optoelectronics, Sensors) and Regional Forecasts 2022-2032

Product link: <https://marketpublishers.com/r/G35A50904300EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G35A50904300EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970