

Adiponitrile Market Size, Share & Trends Analysis Report By Application (Nylon Synthesis, Electrolyte Solution), By End Use (Automotive, Electricals & Electronics), By Region, And Segment Forecasts, 2019 - 2025

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Abstracts

The global adiponitrile market size is projected to reach USD 11.9 billion by 2025, registering a revenue-based CAGR of 4.9% during the forecast period, according to a new report by Grand View Research, Inc. Increasing demand for adiponitrile in manufacturing hexamethylenediamine, which is a major raw material for polyamide 6,6 (nylon 6,6) is anticipated to drive the market over the forecast period.

Polyamide 6,6 (PA 6,6) is extensively used in the manufacturing of automotive components including interior and exterior parts. PA 6,6 based components help reduce the weight of vehicle, which leads to increased fuel efficiency. In addition, its use in the manufacturing of high performance apparels and as an additive in formulation of battery electrolyte is anticipated to positively affect the industry over the forthcoming period.

Increasing adoption of electric vehicles across the globe as an eco-friendly alternative to replace fuel combustion engines has expanded electric vehicle manufacturing sector over the past few years. Adiponitrile is gaining importance as an electrolyte additive in lithium ion batteries which results in increased efficiency and overall performance of each battery cycle. Growing production of electric vehicles operating on Li-ion batteries is anticipated to fuel the demand for adiponitrile over the forthcoming period.

Adiponitrile can be manufactured by hydrocyanation of butadiene and electrodimersation process of acrylonitrile. Hydrocyanation process requires natural gas for the heating purpose which is regulated by multiple authorities across different

countries to monitor environmental pollution. Whereas, electrodimersation process includes high cost of raw material thus, increasing the cost of manufacturing. Owing to these factors, manufacturing of adiponitrile has become a very cost sensitive process. As an effect of it, manufacturers are conducting extensive research for the development of innovative and cost effective processes to cater to the increasing demand for adiponitrile across the globe.

The market is characterized by presence of limited manufacturers across the globe. Invista uses its patented manufacturing technology at its own plant and at Butachimie, which is its joint venture with Solvay S.A. in France. Other notable players in the market are Ascend Performance Materials and Kishida Chemical Co.

Further key findings from the report suggest:

Nylon synthesis application dominated the market with revenue share of 86.6% in 2018 on account of increasing demand in automotive & textile application

In 2018, automotive segment dominated the market with a total share of 81.7% in terms of revenue on account of increasing demand for PA 6,6 to design and manufacture various parts of vehicle

North America is the largest producer of the product, contributing for more than 30% of the global production

In 2018, U.S. is the largest consumer of the product in North America wherein 78.8% of the product was consumed in automotive and textile applications

Some of the key market players are Invista, Ascend Performance Materials, Butachimie, and Kishida Chemicals that cater to the global demand for the product in various end-use industries

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Market segmentation & scope
- 1.2 Market definition
- 1.3 Information procurement
- 1.4 Purchased database
- 1.5 GVR's internal database
- 1.6 Secondary sources & third party perspectives
- 1.7 Primary research
- 1.8 Information analysis
 - 1.8.1 Data analysis models
- 1.9 Market formulation & data visualization
- 1.10 Data validation & publishing
- 1.11 Research scope and assumptions
 - 1.11.1 Assumptions

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Market snapshot

CHAPTER 3 MARKET VARIABLES, TRENDS, AND SCOPE

- 3.1 Market lineage outlook
 - 3.1.1 Plastics industry outlook
 - 3.1.2 Outlook on end-use industries
- 3.2 Penetration and growth prospect mapping, 2014 - 2025
- 3.3 Business segment trends
- 3.4 Value chain analysis
 - 3.4.1 Raw material trends
 - 3.4.2 Sales channel analysis
 - 3.4.3 Distribution channels
- 3.5 Technology overview
 - 3.5.1 Hydrocyanation]
 - 3.5.2 Acrylonitrile EHD
 - 3.5.3 Patent landscape
- 3.6 Market dynamics
 - 3.6.1 Market Drivers

- 3.6.1.1 High demand in automotive & electronics industry
- 3.6.1.2 Rapid growth in textile industry
- 3.6.2 Market restraints
 - 3.6.2.1 Environmental and health concern
- 3.7 Regulatory & political forces
 - 3.7.1 Regulatory landscape
 - 3.7.2 Political landscape
- 3.8 Demand & supply scenario
- 3.9 Trade analysis (HS Code 292690)
- 3.10 Industry analysis tools
 - 3.10.1 Porter's analysis
 - 3.10.2 PESTEL analysis
- 3.11 Major deals & strategic alliances

CHAPTER 4 ADIPONITRILE MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

- 4.1 Application market introduction
- 4.2 Market estimates & forecast, by application
 - 4.2.1 Nylon Synthesis
 - 4.2.1.1 Market estimates & forecasts in nylon synthesis, 2014 - 2025 (USD Million) (Kilotons)
 - 4.2.2 HDI
 - 4.2.2.1 Market estimates & forecasts in HDI, 2014 - 2025 (USD Million) (Kilotons)
 - 4.2.3 Electrolyte solution
 - 4.2.3.1 Market estimates & forecasts in electrolyte solution, 2014 - 2025 (USD Million) (Kilotons)
 - 4.2.4 Other applications
 - 4.2.4.1 Market estimates & forecasts in other applications, 2014 - 2025 (USD Million) (Kilotons)

CHAPTER 5 ADIPONITRILE MARKET: END USE ESTIMATES & TREND ANALYSIS

- 5.1 End-use market introduction
- 5.2 Market estimates & forecast, by end-use
 - 5.2.1 Chemical intermediate
 - 5.2.1.1 Market estimates & forecasts in chemical intermediate, 2014 - 2025 (USD Million) (Kilotons)
 - 5.2.2 Automotive

5.2.2.1 Market estimates & forecasts in automotive, 2014 - 2025 (USD Million)
(Kilotons)

5.2.3 Electronics

5.2.3.1 Market estimates & forecasts in electronics, 2014 - 2025 (USD Million)
(Kilotons)

5.2.4 Textiles

5.2.4.1 Market estimates & forecasts in textiles, 2014 - 2025 (USD Million) (Kilotons)

5.2.5 Other end-uses

5.2.5.1 Market estimates & forecasts in other end-uses, 2014 - 2025 (USD Million)
(Kilotons)

CHAPTER 6 ADIPONITRILE MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

6.1 Regional Market Introduction

6.2 Adiponitrile market estimates & forecast, by region

6.3 North America

6.3.1 Market estimates & forecasts, by application

6.3.2 Market estimates & forecasts, by end-use

6.3.3 U.S.

6.3.3.1 Market estimates & forecasts, by application

6.3.3.2 Market estimates & forecasts, by end-use

6.3.4 Canada

6.3.4.1 Market estimates & forecasts, by application

6.3.4.2 Market estimates & forecasts, by end-use

6.3.5 Mexico

6.3.5.1 Market estimates & forecasts, by application

6.3.5.2 Market estimates & forecasts, by end-use

6.4 Europe

6.4.1. Market estimates & forecasts, by application

6.4.2 Market estimates & forecasts, by end-use

6.4.3 Germany

6.4.3.1 Market estimates & forecasts, by application

6.4.3.2 Market estimates & forecasts, by end-use

6.4.4 France

6.4.4.1 Market estimates & forecasts, by application

6.4.4.2 Market Estimates & forecasts, By End Use

6.4.5. U.K.

6.4.5.1 Market estimates & forecasts, by application

- 6.4.5.2 Market estimates & forecasts, by end-use
- 6.5 Asia Pacific
 - 6.5.1. Market estimates & forecasts, by application
 - 6.5.2 Market estimates & forecasts, by end-use
 - 6.5.3 China
 - 6.5.3.1 Market estimates & forecasts, by application
 - 6.5.3.2 Market estimates & forecasts, by end-use
 - 6.5.4 India
 - 6.5.4.1 Market estimates & forecasts, by application
 - 6.5.4.2 Market Estimates & forecasts, by End Use
 - 6.5.5. Japan
 - 6.5.5.1 Market estimates & forecasts, by application
 - 6.5.5.2 Market estimates & forecasts, by end-use
 - 6.5.6. South Korea
 - 6.5.6.1 Market estimates & forecasts, by application
 - 6.5.6.2 Market estimates & forecasts, by end-use
- 6.6 Central & South America
 - 6.6.1. Market estimates & forecasts, by application
 - 6.6.2 Market estimates & forecasts, by end-use
 - 6.6.3 Brazil
 - 6.6.3.1 Market estimates & forecasts, by application
 - 6.6.3.2 Market estimates & forecasts, by end-use
- 6.7 Middle East & Africa
 - 6.7.1. Market estimates & forecasts, by application
 - 6.7.2 Market estimates & forecasts, by end-use
 - 6.7.3 Saudi Arabia
 - 6.7.3.1 Market estimates & forecasts, by application
 - 6.7.3.2 Market estimates & forecasts, by end-use

CHAPTER 7 COMPETITIVE LANDSCAPE

- 7.1 Recent developments by key market participants
- 7.2 Competitive dashboard
- 7.3 Company market categorization
- 7.4 Company market share analysis
- 7.5 Production landscape
 - 7.5.1 Production capacity, by companies
 - 7.5.2 Recent developments (expansions/closure)
 - 7.5.3 New plant addition vs plant expansions (includes comparative analysis of strategies adopted by key industry participants)

7.6 Vendor landscape

CHAPTER 8 COMPANY PROFILES

8.1 Invista

8.1.1 Company introduction

8.1.2 Financial information

8.1.3 Product portfolio

8.1.4 Strategic initiatives

8.2 Ascend Performance Materials

8.2.1 Company introduction

8.2.2 Financial information

8.2.3 Product portfolio

8.2.4 Strategic initiatives

8.3 Butachimie

8.3.1 Company introduction

8.3.2 Financial information

8.3.3 Product portfolio

8.3.4 Strategic initiatives

8.4 Kishida Chemical Co., Ltd

8.4.1 Company introduction

8.4.2 Financial information

8.4.3 Product portfolio

8.4.4 Strategic initiatives

8.5 Tokyo Chemical Industry

8.5.1 Company introduction

8.5.2 Financial information

8.5.3 Product portfolio

8.5.4 Strategic initiatives

8.6 Thermo Fisher Scientific

8.6.1 Company introduction

8.6.2 Financial information

8.6.3 Product portfolio

8.6.4 Strategic initiatives

8.7 Asahi Kasei Corp

8.7.1 Company introduction

8.7.2 Financial information

8.7.3 Product portfolio

8.7.4 Strategic initiatives

8.8 Merck

8.8.1 Company introduction

8.8.2 Financial information

8.8.3 Product portfolio

8.8.4 Strategic initiatives

8.9 Spectrum Chemical Mfg. Corp

8.9.1 Company introduction

8.9.2 Financial information

8.9.3 Product portfolio

8.9.4 Strategic initiatives

8.10 Acros Orhanixs BVBA

8.10.1 Company introduction

8.10.2 Financial information

8.10.3 Product portfolio

8.10.4 Strategic initiatives

8.11 AA Box LLC

8.11.1 Company introduction

8.11.2 Financial information

8.11.3 Product portfolio

8.11.4 Strategic initiatives

8.12 Alfa Aesar, Thermo Fisher Scientific

8.12.1 Company introduction

8.12.2 Financial information

8.12.3 Product portfolio

8.12.4 Strategic initiatives

List Of Tables

LIST OF TABLES

1. PESTEL analysis
2. Adiponitrile market estimates & forecasts estimates & forecasts, in nylon synthesis, 2014 - 2025 (Kilotons) (USD Million)
3. Adiponitrile market estimates & forecasts, in HDI, 2014 - 2025 (Kilotons) (USD Million)
4. Adiponitrile market estimates & forecasts, in electrolyte solution, 2014 - 2025 (Kilotons) (USD Million)
5. Adiponitrile market estimates & forecasts, in other applications, 2014 - 2025 (Kilotons) (USD Million)
6. Adiponitrile market estimates & forecasts, in chemical reagent, 2014 - 2025 (Kilotons) (USD Million)
7. Adiponitrile market estimates & forecasts, in automotive, 2014 - 2025 (Kilotons) (USD Million)
8. Adiponitrile market estimates & forecasts, in electrical & electronics, 2014 - 2025 (Kilotons) (USD Million)
9. Adiponitrile market estimates & forecasts, in other end-uses, 2014 - 2025 (Kilotons) (USD Million)
10. North America adiponitrile market estimate and forecasts, 2014 - 2025 (Kilotons) (USD Million)
11. North America adiponitrile market volume, by application, 2014 - 2025 (Kilotons)
12. North America adiponitrile market revenue, by application, 2014 - 2025 (USD Million)
13. North America adiponitrile market volume, by end-use, 2014 - 2025 (Kilotons)
14. North America adiponitrile market revenue, by end-use, 2014 - 2025 (USD Million)
15. U.S. adiponitrile market estimate and forecasts, 2014 - 2025 (Kilotons) (USD Million)
16. U.S. adiponitrile market volume, by application, 2014 - 2025 (Kilotons)
17. U.S. adiponitrile market revenue, by application, 2014 - 2025 (USD Million)
18. U.S. adiponitrile market volume, by end-use, 2014 - 2025 (Kilotons)
19. U.S. adiponitrile market revenue, by end-use, 2014 - 2025 (USD Million)
20. Canada adiponitrile market estimate and forecasts, 2014 - 2025 (Kilotons) (USD Million)
21. Canada adiponitrile market volume, by application, 2014 - 2025 (Kilotons)
22. Canada adiponitrile market revenue, by application, 2014 - 2025 (USD Million)
23. Canada adiponitrile market volume, by end-use, 2014 - 2025 (Kilotons)
24. Canada adiponitrile market revenue, by end-use, 2014 - 2025 (USD Million)

25. Mexico adiponitrile market estimate and forecasts, 2014 - 2025 (Kilotons) (USD Million)
26. Mexico. adiponitrile market volume, by application, 2014 - 2025 (Kilotons)
27. Mexico adiponitrile market revenue, by application, 2014 - 2025 (USD Million)
28. Mexico adiponitrile market volume, by end-use, 2014 - 2025 (Kilotons)
29. Mexico adiponitrile market revenue, by end-use, 2014 - 2025 (USD Million)
30. Europe adiponitrile market estimate and forecasts, 2014 - 2025 (Kilotons) (USD Million)
31. Europe adiponitrile market volume, by application, 2014 - 2025 (Kilotons)
32. Europe adiponitrile market revenue, by application, 2014 - 2025 (USD Million)
33. Europe adiponitrile market volume, by end-use, 2014 - 2025 (Kilotons)
34. Europe adiponitrile market revenue, by end-use, 2014 - 2025 (USD Million)
35. Germany adiponitrile market estimate and forecasts, 2014 - 2025 (Kilotons) (USD Million)
36. Germany adiponitrile market volume, by application, 2014 - 2025 (Kilotons)
37. Germany adiponitrile market revenue, by application, 2014 - 2025 (USD Million)
38. Germany adiponitrile market volume, by end-use, 2014 - 2025 (Kilotons)
39. Germany adiponitrile market revenue, by end-use, 2014 - 2025 (USD Million)
40. U.K. adiponitrile market estimate and forecasts, 2014 - 2025 (Kilotons) (USD Million)
41. U.K. adiponitrile market volume, by technology, 2014 - 2025 (Kilotons)
42. U.K. adiponitrile market revenue, by application, 2014 - 2025 (USD Million)
43. U.K. adiponitrile market volume, by end-use, 2014 - 2025 (Kilotons)
44. U.K. adiponitrile market revenue, by end-use, 2014 - 2025 (USD Million)
45. France adiponitrile market estimate and forecasts, 2014 - 2025 (Kilotons) (USD Million)
46. France adiponitrile market volume, by application, 2014 - 2025 (Kilotons)
47. France adiponitrile market revenue, by application, 2014 - 2025 (USD Million)
48. France adiponitrile market volume, by end-use, 2014 - 2025 (Kilotons)
49. France adiponitrile market revenue, by end-use, 2014 - 2025 (USD Million)
50. Asia Pacific adiponitrile market estimate and forecasts, 2014 - 2025 (Kilotons) (USD Million)
51. Asia Pacific adiponitrile market volume, by application, 2014 - 2025 (Kilotons)
52. Asia Pacific adiponitrile market revenue, by application, 2014 - 2025 (USD Million)
53. Asia Pacific adiponitrile market volume, by end-use, 2014 - 2025 (Kilotons)
54. Asia Pacific adiponitrile market revenue, by end-use, 2014 - 2025 (USD Million)
55. China adiponitrile market estimate and forecasts, 2014 - 2025 (Kilotons) (USD Million)
56. China adiponitrile market volume, by application, 2014 - 2025 (Kilotons)
57. China adiponitrile market revenue, by application, 2014 - 2025 (USD Million)

58. China adiponitrile market volume, by end-use, 2014 - 2025 (Kilotons)
59. China adiponitrile market revenue, by end-use, 2014 - 2025 (USD Million)
60. India adiponitrile market estimate and forecasts, 2014 - 2025 (Kilotons) (USD Million)
61. India adiponitrile market volume, by application, 2014 - 2025 (Kilotons)
62. India adiponitrile market revenue, by application, 2014 - 2025 (USD Million)
63. India adiponitrile market volume, by end-use, 2014 - 2025 (Kilotons)
64. India adiponitrile market revenue, by end-use, 2014 - 2025 (USD Million)
65. Japan adiponitrile market estimate and forecasts, 2014 - 2025 (Kilotons) (USD Million)
66. Japan adiponitrile market volume, by application, 2014 - 2025 (Kilotons)
67. Japan adiponitrile market revenue, by application, 2014 - 2025 (USD Million)
68. Japan adiponitrile market volume, by end-use, 2014 - 2025 (Kilotons)
69. Japan adiponitrile market revenue, by end-use, 2014 - 2025 (USD Million)
70. South Korea adiponitrile market estimate and forecasts, 2014 - 2025 (Kilotons) (USD Million)
71. South Korea adiponitrile market volume, by application, 2014 - 2025 (Kilotons)
72. South Korea adiponitrile market revenue, by application, 2014 - 2025 (USD Million)
73. South Korea adiponitrile market volume, by end-use, 2014 - 2025 (Kilotons)
74. South Korea adiponitrile market revenue, by end-use, 2014 - 2025 (USD Million)
75. Central & South America adiponitrile market estimate and forecasts, 2014 - 2025 (Kilotons) (USD Million)
76. Central & South America adiponitrile market volume, by application, 2014 - 2025 (Kilotons)
77. Central & South America adiponitrile market revenue, by application, 2014 - 2025 (USD Million)
78. Central & South America adiponitrile market volume, by end-use, 2014 - 2025 (Kilotons)
79. Central & South America adiponitrile market revenue, by end-use, 2014 - 2025 (USD Million)
80. Brazil adiponitrile market estimate and forecasts, 2014 - 2025 (Kilotons) (USD Million)
81. Brazil adiponitrile market volume, by application, 2014 - 2025 (Kilotons)
82. Brazil adiponitrile market revenue, by application, 2014 - 2025 (USD Million)
83. Brazil adiponitrile market volume, by end-use, 2014 - 2025 (Kilotons)
84. Brazil adiponitrile market revenue, by end-use, 2014 - 2025 (USD Million)
85. Middle East & Africa adiponitrile market estimate and forecasts, 2014 - 2025 (Kilotons) (USD Million)
86. Middle East & Africa adiponitrile market volume, by application, 2014 - 2025

(Kilotons)

87. Middle East & Africa adiponitrile market revenue, by application, 2014 - 2025 (USD Million)

88. Middle East & Africa adiponitrile market volume, by end-use, 2014 - 2025 (Kilotons)

89. Middle East & Africa adiponitrile market revenue, by end-use, 2014 - 2025 (USD Million)

90. Saudi Arabia adiponitrile market estimate and forecasts, 2014 - 2025 (Kilotons) (USD Million)

91. Saudi Arabia adiponitrile market volume, by application, 2014 - 2025 (Kilotons)

92. Saudi Arabia adiponitrile market revenue, by application, 2014 - 2025 (USD Million)

93. Saudi Arabia adiponitrile market volume, by end-use, 2014 - 2025 (Kilotons)

94. Saudi Arabia adiponitrile market revenue, by end-use, 2014 - 2025 (USD Million)

List Of Figures

LIST OF FIGURES

1. Adiponitrile market segmentation
2. Information procurement
3. Data analysis models
4. Market formulation and validation
5. Data validating & publishing
6. Market snapshot
7. Adiponitrile market volume and revenue, 2014 - 2025 (Kilotons) (USD Million)
8. Adiponitrile value chain analysis
9. Market trends
10. Adiponitrile market driver impact
11. China and India automotive production, 2012 - 2017 (Million Units)
12. Major textile manufacturer and supplier countries, 2014 (USD Billion Units)
13. Global Textile and Apparel Trade, 2005 - 2015 (USD Billion Units)
14. Adiponitrile market restraint impact
15. Global crude oil prices, 2014 - 2018
16. Adiponitrile porter's analysis
17. Adiponitrile market revenue, by application, 2018 & 2025 (USD Million)
18. Adiponitrile market revenue, by end-use, 2018 & 2025 (USD Million)
19. Adiponitrile market volume, by region, 2018 & 2025 (Kilotons)
20. Market Share Analysis

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