

# **Adiponitrile Market – Global Industry Size, Share, Trends, Opportunity, & Forecast 2018-2028**

## **Segmented by Application (Nylon Synthesis, and HDI), By End User (Automotive and Transportation, Chemical, Textile, Electrical and Electronics, and Others), By Region, Competition**

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### **Abstracts**

Global Adiponitrile Market has valued at USD 10.12 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 3.15% through 2028.

The global adiponitrile market has emerged as a critical player in the chemical industry, serving as a key precursor in the synthesis of essential materials like Nylon-6,6. The demand for adiponitrile has witnessed a robust upward trajectory, and several factors contribute to this momentum. Notably, the ongoing industrialization, burgeoning population, and expanding manufacturing base in Asia Pacific, home to some of the world's largest manufacturing economies like China, Japan, South Korea, and India, have fueled the growth of the adiponitrile market. Countries in the region are pivotal players in the production of electrical and electronic products, fostering a significant surge in the demand for adiponitrile. According to ZEVl, the Asian electro market experienced a notable growth of 10% in 2021, reaching a total value of USD 3,674 billion in the same year.

The electronics industry's expansion in the Asia Pacific region has positioned adiponitrile as a critical component in the production of nylon 6,6, which is integral to various electronic applications. Market players are capitalizing on this trend, with manufacturers strategically entering and expanding their presence in the Asian market. For instance, Shandong Longhua New Material's recent investment of around USD 1.1

billion to establish the largest nylon 6,6 factory in China underscores the region's significance in the adiponitrile market.

Moreover, the construction industry in North America has emerged as another major driver for adiponitrile demand. The region is experiencing a surge in non-residential construction projects, driven by factors such as increased demand for hospitals, commercial buildings, and educational institutions. Legislative initiatives like the 'Affordable Healthcare Act' further stimulate the construction of healthcare units and hospitals, boosting the demand for architectural adiponitrile.

Adiponitrile's versatility and significance extend beyond its role as a precursor in Nylon-6,6 synthesis. The automotive industry is a major consumer of adiponitrile, utilizing it in the production of lightweight and fuel-efficient components. Its involvement in the creation of polyurethane foams used in automotive seating and insulation not only enhances comfort but also contributes to reducing vehicle weight for improved fuel efficiency. Additionally, adiponitrile plays a pivotal role in the production of fuel system components such as fuel tanks and lines, as well as airbag fabrics. In the textile industry, adiponitrile contributes to the production of nylon-6,6 fibers used in airbag fabrics, ensuring high tensile strength, tear resistance, and flame retardancy for enhanced passenger safety.

While exploring the dynamics of the adiponitrile market, it is essential to consider its interconnection with the global Adiponitrile market. Adiponitrile play a crucial role in the production of polyurethane foams and coatings, making them integral to industries such as construction, automotive, furniture, and packaging.

The growth of the Adiponitrile market is driven by factors such as the increasing demand for polyurethane foams in construction for insulation purposes. As global initiatives focus on energy efficiency and sustainable construction, the demand for polyurethane foam has surged, consequently propelling the demand for Adiponitrile. The automotive sector is another significant consumer of polyurethane coatings, which are known for their lightweight and durable nature. The growth of the automotive industry, coupled with the trend towards lightweight materials for fuel efficiency, contributes to the demand for Adiponitrile.

In both the Adiponitrile markets, several key trends and opportunities are shaping the industry landscape. The increasing focus on sustainability and environmental regulations is driving innovation in manufacturing processes and catalyst technologies. Companies that invest in research and development to enhance the efficiency and

sustainability of these catalysts are likely to gain a competitive advantage.

The growth potential in emerging economies, particularly in Asia Pacific, presents significant opportunities for market expansion. Companies that strategically position themselves in these growing markets stand to benefit from the increasing demand for Adiponitrile.

Moreover, technological advancements and breakthroughs in catalyst technologies are contributing to the diversification of applications. As these catalysts become more efficient and versatile, new opportunities emerge in industries beyond their traditional applications.

Despite the promising outlook, the Adiponitrile markets face challenges that need to be addressed for sustained growth. Volatility in raw material prices poses a risk to the profitability of these industries, as fluctuations in the cost of key components can impact production costs and pricing strategies.

Additionally, the competitive landscape in both markets is intense, leading to price wars and potential margin pressures. Companies need to differentiate themselves through innovation, quality, and efficiency to maintain a competitive edge.

The global adiponitrile market is poised for continued growth, driven by the expanding applications in key industries such as electronics, automotive, and construction. The interconnection with the global Adiponitrile market further amplifies the significance of these chemicals in supporting diverse industrial processes. As industries worldwide emphasize sustainability and efficiency, the role of Adiponitrile becomes increasingly crucial. Companies that navigate challenges, capitalize on opportunities, and prioritize innovation are well-positioned to contribute to the sustainable growth of these dynamic markets.

## Key Market Drivers

### Increasing Demand for Nylon is Expected to Drive the Demand for Global Adiponitrile Market

The global adiponitrile market is poised for significant growth, primarily driven by the increasing demand for nylon, a versatile and widely used synthetic polymer. Adiponitrile, a key intermediate in the production of nylon 6,6, plays a pivotal role in the synthesis of this high-performance polymer. As the demand for nylon continues to rise across

various industries, including textiles, automotive, and packaging, the need for adiponitrile is expected to surge, propelling market growth and contributing to the evolution of materials and applications in the global market.

Nylon, renowned for its strength, durability, and versatility, is a preferred material in the production of fibers, filaments, and engineering plastics. These nylon-based products find extensive applications in the textile industry for the manufacturing of apparel, home textiles, and industrial fabrics. The rising global population, coupled with changing consumer preferences and fashion trends, is fueling the demand for nylon textiles. As a result, the production of adiponitrile, a vital precursor in the synthesis of nylon, is expected to increase to meet the growing requirements of the textile industry.

In the automotive sector, nylon is widely utilized in the production of various components, including engine components, fuel systems, and interior and exterior parts. The material's lightweight nature, strength, and resistance to heat make it an ideal choice for enhancing fuel efficiency and overall performance in the automotive industry. The evolving landscape of the automotive sector, with an increasing emphasis on electric and hybrid vehicles, is expected to drive the demand for nylon, subsequently boosting the demand for adiponitrile as a crucial raw material in nylon production.

Furthermore, the packaging industry is a significant consumer of nylon, particularly in the form of nylon films and packaging materials. Nylon's excellent barrier properties, strength, and flexibility contribute to its use in flexible packaging applications, extending the shelf life of food products and protecting them from external factors. With the growing demand for convenient and sustainable packaging solutions, the use of nylon in the packaging industry is expected to expand, further driving the demand for adiponitrile.

The versatility of nylon extends beyond textiles, automotive, and packaging to various industrial applications, including the electrical and electronics sector. Nylon is used in the production of cable sheaths, connectors, and other components due to its excellent insulating properties, mechanical strength, and resistance to wear. The continuous innovation and technological advancements in the electronics industry are likely to fuel the demand for nylon-based materials, creating a positive outlook for the adiponitrile market.

As the global focus on sustainability intensifies, the demand for nylon derived from bio-based or recycled sources is gaining traction. Adiponitrile, being a key ingredient in the synthesis of nylon, is expected to witness increased production from sustainable

feedstocks, contributing to the overall sustainability goals of industries utilizing nylon-based materials.

In conclusion, the increasing demand for nylon across diverse industries, including textiles, automotive, packaging, and electronics, is a primary driver for the growth of the global adiponitrile market. As industries continue to innovate and seek materials that offer a balance of performance, sustainability, and versatility, the role of adiponitrile in the production of nylon becomes increasingly crucial. The market's trajectory is intricately linked to the evolution of end-use applications and the ongoing efforts to address environmental concerns through the adoption of sustainable materials, positioning adiponitrile as a key player in the global chemical industry.

### Increasing Demand for Lightweight Materials in the Automotive Industry is Expected to Propel the Demand for Global Adiponitrile Market Growth

The global adiponitrile market is poised for significant growth, driven by the burgeoning demand for lightweight materials in the automotive industry. Adiponitrile, a critical intermediate in the production of nylon 6,6, plays a pivotal role in the synthesis of this high-performance polymer, which is widely utilized in the automotive sector. As the automotive industry undergoes a paradigm shift towards lightweight materials to enhance fuel efficiency and reduce emissions, the demand for adiponitrile is expected to soar, driving market growth and contributing to the ongoing transformation of automotive manufacturing.

The imperative for fuel efficiency and the increasing emphasis on environmental sustainability are reshaping the automotive landscape, prompting manufacturers to explore innovative materials that offer strength without compromising on weight. Nylon 6,6, derived from adiponitrile, is a versatile material known for its excellent mechanical properties, durability, and resistance to heat – making it an ideal choice for various automotive applications. The use of nylon in the production of lightweight components, such as engine covers, air intake manifolds, and structural parts, contributes to overall weight reduction in vehicles, leading to improved fuel efficiency and reduced carbon emissions.

As the automotive industry embraces electric and hybrid vehicles to meet stringent emissions standards, the demand for lightweight materials becomes even more pronounced. The shift towards electric mobility necessitates a reevaluation of traditional automotive design and materials to optimize performance and extend the range of electric vehicles. Adiponitrile, as a key precursor in the production of lightweight nylon

materials, is integral to achieving the goals of electrification in the automotive sector.

Moreover, the demand for adiponitrile is propelled by the increasing trend of incorporating advanced materials in interior components of vehicles. Nylon-based materials are favored for their strength, resistance to wear, and versatility, making them suitable for applications such as seat fabrics, carpeting, and interior trim. The automotive industry's focus on enhancing comfort, aesthetics, and durability in vehicle interiors contributes to the growing use of adiponitrile-derived nylon materials in this segment.

In addition to its role in reducing vehicle weight and enhancing interior components, adiponitrile plays a crucial part in the production of automotive hoses and tubing. Nylon hoses offer advantages such as flexibility, chemical resistance, and durability, making them essential components in fluid transportation systems within vehicles. As automotive manufacturers prioritize efficiency, reliability, and durability in vehicle systems, the demand for nylon-based hoses and tubing, and consequently adiponitrile, is expected to rise.

Furthermore, the global push towards sustainability and the circular economy is influencing material choices in the automotive sector. The ability to recycle and reuse materials is gaining prominence, and nylon 6,6 derived from adiponitrile demonstrates recyclability, contributing to the industry's sustainability goals. As regulations and consumer preferences increasingly favor eco-friendly practices, the use of adiponitrile in the production of recyclable materials adds to its significance in the automotive value chain.

In conclusion, the increasing demand for lightweight materials in the automotive industry, driven by the need for fuel efficiency, emissions reduction, and advancements in electric mobility, is a key factor propelling the growth of the global adiponitrile market. As automotive manufacturers seek materials that offer a balance of strength, lightweight characteristics, and sustainability, adiponitrile's role in the synthesis of nylon 6,6 positions it as a crucial contributor to the ongoing evolution of automotive manufacturing. The market's trajectory is intricately linked to the dynamic and transformative trends within the automotive industry, emphasizing the critical role of adiponitrile in shaping the future of lightweight and sustainable automotive materials.

**Rising Demand for Lightweight Materials Textiles Propels the Global Adiponitrile Market Growth**



The global adiponitrile market is experiencing robust growth, propelled by the rising demand for lightweight materials in the textiles industry. Adiponitrile, a key intermediate in the production of nylon 6,6, stands at the forefront of this market growth, as it plays a pivotal role in the synthesis of nylon – a versatile and high-performance polymer. As the textiles industry undergoes a transformation driven by consumer preferences for lightweight, durable, and sustainable materials, the demand for adiponitrile is expected to soar, contributing to advancements in textile technology and expanding applications across a range of end-use products.

Nylon, derived from adiponitrile, is renowned for its exceptional strength, durability, and versatility, making it a preferred material to produce lightweight textiles. The demand for lightweight fabrics has seen a surge across various sectors, including apparel, sportswear, and outdoor gear, where consumers increasingly prioritize comfort, performance, and sustainability. Adiponitrile's role in the production of nylon fibers and filaments positions it as a key enabler in meeting these demands, driving the growth of the global textiles market.

In the apparel industry, where fashion meets function, lightweight textiles are gaining popularity for their breathability and flexibility. Activewear and athleisure segments, in particular, have witnessed a significant shift towards materials that offer enhanced comfort and performance. Nylon-based textiles, produced with the involvement of adiponitrile, have become integral in the creation of activewear garments that provide a perfect balance of lightness, durability, and moisture-wicking properties, meeting the evolving needs of consumers engaged in various physical activities.

Additionally, the demand for lightweight textiles extends to the outdoor and sportswear markets, where enthusiasts seek materials that offer resilience against environmental elements while maintaining a lightweight profile. Nylon-based fabrics, incorporating adiponitrile in their production, are favored for their ability to withstand harsh conditions, making them suitable for outdoor apparel, backpacks, and gear. The versatility of these textiles contributes to the creation of durable and weather-resistant products, meeting the requirements of consumers engaged in outdoor activities.

Moreover, the automotive textiles sector is witnessing a surge in demand for lightweight materials, driven by the automotive industry's emphasis on fuel efficiency and sustainability. Adiponitrile-derived nylon materials find applications in the production of lightweight automotive textiles, including seat fabrics, interior trims, and headliners. As the automotive sector continues to innovate in interior design and materials, the use of adiponitrile in the production of lightweight, durable, and aesthetically pleasing textiles is

expected to contribute to the advancement of automotive interiors.

Furthermore, the aviation and aerospace industries, with their stringent requirements for lightweight materials, present another avenue for the growth of the adiponitrile market. Nylon textiles, produced with adiponitrile, are used in the manufacturing of lightweight components for aircraft interiors, contributing to overall weight reduction and fuel efficiency. As the aerospace industry prioritizes advancements in materials to meet sustainability goals and regulatory standards, the demand for adiponitrile-derived textiles is likely to witness an upward trajectory.

In conclusion, the rising demand for lightweight materials in the textiles industry, spanning apparel, sportswear, outdoor gear, automotive textiles, and aerospace applications, is a key driver for the growth of the global adiponitrile market. Adiponitrile's role in the synthesis of nylon, a material synonymous with strength and versatility, positions it as a vital component in the evolution of textiles technology. The market's trajectory is intricately linked to the dynamic and evolving trends within the textiles industry, emphasizing the central role of adiponitrile in shaping the future of lightweight and high-performance textiles across diverse end-use sectors.

## Key Market Challenges

### Fluctuations in Raw Material Prices Poses a Significant Obstacle to Market Expansion

Fluctuations in raw material prices emerge as a critical impediment to the expansive growth of the global Adiponitate market. The market is intricately tied to the availability and cost dynamics of key raw materials essential in the production of Adiponitate. Unpredictable shifts in material prices, driven by factors such as geopolitical tensions, supply chain disruptions, or market speculation, introduce volatility into production costs. This inherent uncertainty complicates pricing strategies, making it challenging for manufacturers to offer competitive and stable prices in the global market. Consequently, this obstacle hampers the broader adoption of Adiponitate across industries.

Industry stakeholders must navigate this challenge through strategic supply chain management, risk mitigation measures, and exploration of alternative sourcing options. By addressing these price fluctuations proactively, the Adiponitate market can enhance its resilience, ensuring sustainable growth on a global scale.

## Environmental Concerns



Environmental concerns pose a substantial obstacle to the global expansion of the Activated Alumina market. As sustainability becomes a focal point for industries worldwide, heightened awareness of environmental impacts has led to increased scrutiny of industrial processes and materials. Activated Alumina, while valued for its adsorption properties, may face challenges due to its production processes and potential environmental footprint.

Issues such as energy consumption, waste generation, and emissions associated with the manufacturing of Activated Alumina have raised alarms among environmentally conscious consumers and regulatory bodies. To overcome this obstacle, market participants need to invest in eco-friendly production methods, adopt circular economy principles, and emphasize the recyclability and reusability of Activated Alumina. Addressing these environmental concerns is not only essential for compliance with evolving regulations but also crucial for securing a sustainable and responsible position in the global market, fostering long-term growth and acceptance.

## Key Market Trends

### Increasing Demand for High Purity Adiponitrile in Emerging Markets

The global Adiponitrile (ADN) market is experiencing a transformative shift fueled by the increasing demand for high-purity ADN in emerging markets. ADN serves as a crucial building block in the production of nylon 6,6, a versatile polymer used in various industries, including textiles, automotive, and electronics. The surge in demand for high-purity ADN can be attributed to the rapid industrialization and economic growth witnessed in emerging markets. As these regions undergo significant development, there is a heightened need for advanced materials such as nylon for applications ranging from durable textiles to lightweight automotive components.

Activated Alumina plays a pivotal role in this scenario, acting as a catalyst in the hydrogenation process essential for ADN production. The demand for high-purity ADN is particularly pronounced in the automotive sector within emerging markets, where the production of lightweight and durable materials is paramount. Additionally, the electronics industry, witnessing substantial growth in these markets, further contributes to the increased demand for ADN, as it is integral to the production of electronic components.

The catalytic properties of Activated Alumina are instrumental in ensuring the quality and purity of ADN, meeting the stringent standards required by industries dependent on

this chemical intermediate. As a result, the increasing demand for high-purity ADN in emerging markets is a key trend driving the growth of the global Adiponitrile market. This trend not only reflects the evolving needs of industries in these regions but also underscores the pivotal role of Activated Alumina in facilitating the production of high-quality ADN for diverse applications.

### Development of New Production Methods

The global Adiponitrile (ADN) market is experiencing a significant growth trend, propelled by the ongoing development of new production methods. Innovations in manufacturing techniques are playing a pivotal role in enhancing the efficiency, sustainability, and cost-effectiveness of ADN production, consequently driving market expansion. One noteworthy example is the emergence of bio-based production methods. Companies are increasingly exploring bio-derived feedstocks, such as renewable raw materials, as alternatives to traditional fossil-based inputs in ADN synthesis. This shift not only aligns with the growing emphasis on sustainable practices but also diversifies the raw material base, contributing to a more resilient and environmentally friendly ADN production process.

Furthermore, advancements in catalysis and reactor design represent another facet of the evolving production landscape. Novel catalysts and improved reactor configurations enhance the selectivity and yield of ADN, leading to more streamlined and resource-efficient manufacturing processes. For instance, the integration of advanced catalysts, like metal-based catalysts supported by materials such as Activated Alumina, has shown promise in optimizing the hydrogenation step in ADN production. This not only improves the overall efficiency of the process but also allows for better control over product quality.

As these innovative production methods gain traction, they are expected to reshape the dynamics of the global Adiponitrile market. Companies adopting these technologies are likely to gain a competitive edge by offering sustainable and high-quality ADN solutions, meeting the evolving demands of industries such as textiles, automotive, and electronics. In conclusion, the development of new production methods stands out as a key trend, driving both the growth and sustainability of the global Adiponitrile market.

### Segmental Insights

### End User Insights

Based on the end user, the automotive and transportation segment emerged as the dominant player in the global market for Adiponitrile in 2022. The surge in product usage within the automotive sector has been a key driver for the dominant market position, stemming from its diverse applications in the production of lightweight, fuel-efficient components, and the enhancement of vehicle safety and comfort.

Adiponitrile's role as a precursor in the manufacturing of polyurethane foams, particularly in automotive seating and insulation, contributes to both comfort and improved fuel efficiency by reducing vehicle weight. Furthermore, adiponitrile plays a crucial role in the fabrication of fuel system components such as fuel tanks and lines. Its significance extends to the production of airbag fabrics, wherein the high-performance characteristics of nylon-6,6 fibers, synthesized with adiponitrile, ensure the requisite tensile strength, tear resistance, and flame retardancy for effective airbag deployment during collisions, thereby bolstering passenger safety.

A primary application of adiponitrile lies in the synthesis of hexamethylenediamine, a foundational element for Nylon-6,6, widely employed in textile manufacturing. The outstanding properties of Nylon-6,6, encompassing durability, strength, and resistance to abrasion, position it as an optimal choice for the fabrication of fabrics, threads, and fibers. These nylon-based textiles find versatile use across industries, ranging from fashion and sports to industrial applications. Adiponitrile's pivotal role in the creation of nylon textiles not only ensures the production of robust and enduring fabrics but also contributes to the innovation of textile materials meeting the diverse demands of today's dynamic textile market, spanning high-performance sportswear to durable industrial fabrics.

### Application Insights

Based on the application, the nylon synthesis segment established its dominance in the global market for Adiponitrile based on the application. This dominance can be attributed to nylon's outstanding tensile strength and abrasion resistance, making it suitable for a diverse array of uses, ranging from clothing and carpets to mechanical parts and industrial components.

The synthesis process for Nylon-6,6 begins with the hydrogenation of adiponitrile, resulting in hexamethylenediamine—a crucial component in the process. This compound, derived from adiponitrile, undergoes polycondensation with adipic acid, leading to the formation of nylon-6,6 characterized by a long-chain polymer structure with alternating amide linkages. This unique structure imparts exceptional mechanical

properties, including high tensile strength and resistance to wear and tear.

Nylon produced through adiponitrile utilization finds applications across various sectors. In the textile industry, it is preferred for crafting durable and lightweight fabrics, while in automotive and aerospace sectors, it plays a crucial role in manufacturing engine components, gears, and bearings due to its remarkable mechanical properties and high-temperature resistance.

Adiponitrile holds a significant role in Hexamethylene Diisocyanate (HDI) production—a vital component in high-performance polyurethane products. The HDI synthesis initiates with the reaction of adiponitrile, also referred to as hexanedinitrile, with formaldehyde, yielding 1,6-diaminohexane—an essential intermediate. This intermediate undergoes cyclization, resulting in the production of HDI.

HDI is primarily employed as a key constituent in the manufacturing of polyurethane coatings and adhesives. Renowned for their durability, chemical resistance, and versatility, polyurethane coatings based on HDI find extensive use in automotive refinishing, industrial equipment coatings, and architectural applications. These coatings are recognized for providing robust protective layers that enhance surface longevity while maintaining an appealing appearance.

## Regional Insights

Based on the region, Asia Pacific region emerged as the dominant player in the global Adiponitrile market in 2022, holding the largest market share in terms of both value and volume. The Asia Pacific region's growing manufacturing footprint, population growth, and ongoing industrialization are all factors contributing to the rise in demand for adiponitrile. This region is linked to some of the biggest manufacturing economies in the world, including those of China, Japan, South Korea, and Indian region.

Notably, countries within the region, such as China, India, Japan, South Korea, Singapore, and Malaysia, stand out as global leaders in the production of electrical and electronic products. According to ZEVI, the Asian electro market witnessed a significant growth of 10% in 2021, reaching a total value of USD 3,674 billion in the same year. Consequently, the adiponitrile market is poised for an upward trajectory in the coming years, fueled by the burgeoning electronics industry in the region. Manufacturers are strategically expanding and entering the market to produce nylon 6,6 in various Asian Pacific countries. A case in point is Shandong Longhua New Material, which, in April 2022, announced an investment of approximately USD 1.1 billion to establish the

largest nylon 6,6 factory in China, boasting a production capacity exceeding 1 million tons. Nylon 6,6 resin serves as a pivotal component for the production of diverse chemical intermediates, electrical and electronic products, as well as automobiles and their components.

In North America, the construction industry stands out as a key driver for the demand for adiponitrile. This is primarily fueled by the heightened demand for non-residential construction projects, including hospitals, commercial buildings, and educational institutions. Initiatives such as the 'Affordable Healthcare Act,' enacted in March 2010 by the U.S. Department of Health & Human Services, are further stimulating the construction of a greater number of healthcare units and hospitals. This, in turn, is anticipated to propel the demand for architectural adiponitrile in the region throughout the forecast period.

#### Key Market Players

Asahi Kasei Corp

Ascend Performance Materials

BASF SE

Butachimie

INVISTA

Kishida Chemical Co. Ltd

Merck KgaA

Spectrum Chemical Mfg. Corp.

Tokyo Chemical Industry Co. Ltd

Vizag Chemical International

#### Report Scope:

In this report, the Global Adiponitrile Market has been segmented into the following

categories, in addition to the industry trends which have also been detailed below:

Adiponitrile Market, By Application:

Nylon Synthesis

HDI

Adiponitrile Market, By End User:

Automotive and Transportation

Chemical

Textile

Electrical and Electronics

Others

Adiponitrile Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany



Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

## Competitive Landscape

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

Available Customizations:

Global Adiponitrile 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:

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