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Adiponitrile (CAS 111-69-3) Market Research Report 2025

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Abstracts

Adiponitrile (CAS 111-69-3) Market Research Report 2025 presents comprehensive data on 1,4-Dicyanobutane markets globally and regionally (Europe, Asia, North America etc.)

The report includes 1,4-Dicyanobutane description, covers its application areas and related patterns. It overviews 1,4-Dicyanobutane market, names 1,4-Dicyanobutane producers and indicates its suppliers.

Besides, the report provides 1,4-Dicyanobutane prices in regional markets.

In addition to the above the report determines 1,4-Dicyanobutane consumers in the market.

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Adiponitrile (CAS 111-69-3) Market Research Report 2025 can feature:

market condition and estimations, market forecast

chemical product ranges, trademarks, analogous products, application areas

regional and global producers, consumers and traders (including contact details).

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About

Product Name: 1,4-Dicyanobutane
Synonyms:
Adiponitrile
Hexanedinitrile

CAS#: 111-69-3
Formula: $C_6H_8N_2$
Molecular Weight: 108.14

Adiponitrile (1,4-dicyanobutane or adipyldinitrile) is an organic compound with the chemical formula $(CH_2)_4(CN)_2$ and a melting point between 1-3?°C. This dinitrile is a viscous, colourless liquid, which is soluble in alcohol and chloroform.

Early industrial routes for adiponitrile synthesis involved furfural to later move to the chlorination of butadiene to give 1,4-dichloro-2-butene, which, with sodium cyanide, converts to 3-hexenedinitrile, which in turn can be hydrogenated to adiponitrile. Adiponitrile was also produced from adipic acid, by dehydration of the diamide, but the route was abandoned following the closure of China's last small plant.

Today, the majority of adiponitrile is prepared by the nickel-catalyzed hydrocyanation of butadiene. The method, regarded as the most cost-effective process, was pioneered by DuPont. However, this route is sensitive to natural gas prices. The other major industrial route involves electrosynthesis, which starts from the electrohydrodimerization of acrylonitrile.

The only application for adiponitrile is as an intermediate for hexamethylenediamine production. In 2010 1197ktes of adiponitrile were synthesized, 71% of which was produced by the butadiene/gas route and 29% from propylene, via acrylonitrile. In line with overall hexamethylenediamine growth, global demand for adiponitrile is rising at a CAGR of 1.4%, from 2000 to 2020.

Adiponitrile market is covered in the study Adiponitrile (CAS 111-69-3) Market Research Report 2025. The report encompasses an extensive description of the product, unveils its application areas, and briefly summarizes patents in the sphere. It overlooks adiponitrile market situation, profiles of manufacturers, suppliers as well as users. The

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report also provides information on the current adiponitrile prices in the market.

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