

# Acetonitrile (CAS 75-05-8) Market Research Report 2025

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## Abstracts

Acetonitrile (CAS 75-05-8) Market Research Report 2025 presents comprehensive data on Acetonitrile markets globally and regionally (Europe, Asia, North America etc.)

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

Besides, the report provides Acetonitrile prices in regional markets.

In addition to the above the report determines Acetonitrile consumers in the market.

BAC Reports offers its clients in-depth market research of chemical industry products on the global and regional markets (North & Latin America, Asia Pacific, European Union, Russia and CIS).

We can analyze the following elements for each chemical product in any country or region:

capacities and production

consumption volume and structure

market price trends

exports and imports

existing technologies

feedstock market condition

market news digest

market forecast.

Acetonitrile (CAS 75-05-8) 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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\*Please note that Acetonitrile (CAS 75-05-8) Market Research Report 2025 is a half ready publication and contents are subject to change. It only requires updating with the help of new data that are constantly retrieved from Publisher's databases and other sources. This updating process takes 5-7 business days after order is placed. Thus, our clients always obtain a revised and updated version of each report. Please also note that we do not charge for such an updating procedure. BAC Reports has information for more than 25,000 different chemicals available but it is impossible to have all reports updated immediately. That is why it takes 5-7 days to update a report after an order is received.

## About

|               |                             |
|---------------|-----------------------------|
| Product Name: | Acetonitrile                |
| Synonyms:     | Cyanomethane                |
|               | Ethanenitrile               |
|               | Methyl cyanide              |
|               | Acetonitrile HPLC           |
|               | Acetonitrile, anhydrous     |
|               | Acetonitril (GERMAN, DUTCH) |

|                   |  |
|-------------------|--|
| CAS#:             | 75-05-8  |
| Formula:          | $C_2H_3N$  |
| Molecular Weight: | 41.05  |
| Appearance:       | Colorless liquid with a sweet, ether like odor, lachrymator.   |
| Usage:            | In organic synthesis as starting material for acetophenone, alpha-naphthaleneacetic acid, thiamine, acetamidine. To remove tars, phenols, & coloring matter from petroleum hydrocarbons which are not soluble in acetonitrile. To extract fatty acids from fish liver oils & other animals & veg |

Acetonitrile (also called methyl cyanide, ethanenitrile, ethyl nitrile, etc.) is the simplest organic nitrile with the molecular formula of  $C_2H_3N$ . It is a clear, flammable liquid, melting and boiling at  $-45^{\circ}C$  and  $82^{\circ}C$  respectively. Acetonitrile is miscible with water and with common organic solvents, but immiscible with many saturated hydrocarbons (alkanes).

Acetonitrile is produced by dehydration of acetamide or by the reaction of ethanol and ammonia in the presence of catalyst such as Ag, Cu,  $MoO_3$ , and ZnS at moderate temperatures as well as a by-product from the manufacture of acrylonitrile. Acetonitrile

can also be obtained by the reaction of cyanogen chloride with methane, ketones, ethanol, alkylene epoxides, and paraffins.

Acetonitrile finds its greatest use as an extractive distillation solvent in the petrochemical industry for separating olefin-diolefin mixtures and for C<sub>4</sub>-hydrocarbons.

It is widely used in battery applications because of its relatively high dielectric constant and ability to dissolve electrolytes. It is a popular solvent in cyclic voltammetry and liquid chromatography.

Acetonitrile plays a key role as the dominant solvent used in the manufacture of DNA oligonucleotides from monomers.

Industrially, it is used as a solvent to produce pharmaceuticals and photographic film.

Acetonitrile is a common two-carbon building block in organic synthesis of many useful chemicals, including acetophenone, thiamine, acetamidine, and  $\alpha$ -naphthaleneacetic acid. Its reaction with cyanogen chloride affords malononitrile.

Following a period of so called "Great Acetonitrile Shortage", at the end of 2009 the market for acetonitrile returned to growth path, expected to increase at a CAGR of 4.9% on average with highest rates (7.5-8.2%) in China and India, where pharmaceutical industry is rapidly developing.

Acetonitrile market is covered in the study Acetonitrile (CAS 75-05-8) Market Research Report 2025. The report encompasses proper description of the product, unveils application areas, and briefly summarizes patents in the sphere. It overlooks acetonitrile market situation, names manufacturers, suppliers as well as users. The report also provides current acetonitrile prices in the market.

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