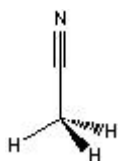


## TECHNICAL INFORMATION

Catalog Number: 150225, 152491, 190142

### Acetonitrile

#### Structure:



**Molecular Formula:** C<sub>2</sub>H<sub>3</sub>CN

**Molecular Weight:** 41.05

**CAS #** 75-05-8

**Synonym:** Methyl cyanide

**Physical Description:** Clear and colorless liquid

**Solubility:** Soluble in water. Miscible with methanol, methyl acetate, ethyl acetate, acetone, ether, acetamide solutions, chloroform, carbon tetrachloride, ethylene chloride and many unsaturated hydrocarbons; Immiscible with many saturated hydrocarbons (petroleum fractions).<sup>1</sup>

#### Typical Uses:<sup>1</sup>

- In organic synthesis as starting material for acetophenone, a-naphthaleneacetic acid, thiamine, acetamidine.
- To remove tars, phenols, and coloring matter from petroleum hydrocarbons which are not soluble in acetonitrile.
- To extract fatty acids from fish liver oils and other animal and vegetable oils.
- Can be used to recrystallize steroids.
- As an indifferent medium in physicochemical investigations.
- Wherever a polar solvent having a rather high dielectric constant is required.
- As a medium for promoting reactions involving ionization.
- As a solvent in non-aqueous titrations.
- As a non-aqueous solvent for inorganic salts.

#### Availability:

Catalog Number	Description	Size
150225	Acetonitrile, purity approximately 99%	500 ml 1 liter 4 liters
190142	Acetonitrile, purity approximately 95%	500 ml 1 liter 4 liters
152491	Acetonitrile, ACS reagent grade, purity not less than 99.5%	500 ml 1 liter 4 liters

**Also Available:**

<b>Catalog Number</b>	<b>Description</b>	<b>Size</b>
511705	Acetonitrile-[D3], purity 99.8% D atom, density = ~0.84 g/ml	10 x 1 g 25 g 50 g

**Reference:**

– *Merck Index*, **12th Ed.**, No. 68.