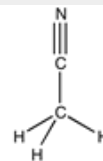


**Identification**

CH<sub>3</sub>CN  
M = 41,05 g/mol  
CAS [75-05-8]  
EC number: 200-835-2  
Taric code: 2926 90 95

**Synonyms**

Methyl cyanide, Cyanomethane

**Applications**

chromatography, synthesis of organic products, solvents.

**Specifications**

assay (G.C.)..... min. 99,8 %  
identity (IR-spectrum)..... passes test  
density (20°/4°)..... 0,779 - 0,783  
acidity..... max. 0,001 meq/g  
alkalinity..... max. 0,0002 meq/g  
residue on evaporation..... max. 0,0001 %

water (K.F.)..... max. 0,003 %  
minimum transmission in a 1,0 cm cell at:  
wavelength:..... transmission:  
200 nm..... 88 %  
225 nm..... 98 %

Microfiltered through membranes of pore diameter 0,22 µm

**Physical data**

- Density: 0,786 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Melting point: -45,7 °C
- Boiling point: 81,6 °C
- Flash point: 2 °C
- Ignition temperature: 524 °C
- Vapour pressure: (20 °C) 97 hPa
- Refraction index: (n 20 °C) 1,3442
- Viscosity: (20 °C) 0,39 mPas
- Dipolar moment: (20 °C) 3,44 Debye
- Dielectric const.: (20 °C) 37,5
- Evap. heat: (81 °C) 833 KJ/kg
- Saturation conc.: (20 °C) 163 g/m<sup>3</sup>
- Expl. limit (upper): 17 Vol%
- Expl. limit (lower): 3,0 Vol%

**Safety - GHS**

Signal Word: Danger

**Hazard Statements:**

H225: Highly flammable liquid and vapour.  
H302+H312+H332: Harmful if swallowed, in contact with skin or if inhaled.  
H319: Causes serious eye irritation.

**Precautionary Statements:**

P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.  
P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P370+P378: In case of fire: Use ... for extinction.  
P403+P235: Store in a well-ventilated place. Keep cool.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- ADR: 3 F1 II • UN 1648 • ACETONITRILE
- IMDG: 3 II • UN 1648 • ACETONITRILE
- IATA/ICAO: 3 II • UN 1648 • ACETONITRILE
- PAX: 353
- CAO: 364
- 10°C - 30°C