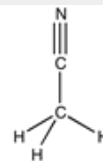


**Identification**

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. 99,9 %	nickel (Ni).....	max. 0,02 ppm
litmus paper test.....	passes test	tin (Sn).....	max. 0,1 ppm
identity (IR-spectrum).....	passes test	zinc (Zn).....	max. 0,01 ppm
density (20°/20°).....	0,781 - 0,785	residue on evaporation.....	max. 0,0002 %
refractive index n <sub>20</sub> /D.....	1,343 - 1,345	water (K.F.).....	max. 0,03 %
distillation range (80-82°C).....	min. 95 %		
appearance.....	clear	liquid chromatography suitability	
colour (Hazen).....	max. 10	absorbance.....	passes test
acidity.....	max. 0,0002 meq/g	gradient elution.....	passes test
alkalinity.....	max. 0,0001 meq/g		
cyanides (CN).....	max. 50 ppm	UV Spectroscopy in a 1,0 cm cell:	
aluminium (Al).....	max. 0,1 ppm	min. transmission at	
barium (Ba).....	max. 0,01 ppm	195 nm.....	min. 70
boron (B).....	max. 0,02 ppm	200 nm.....	min. 90
cadmium (Cd).....	max. 0,01 ppm	230 nm.....	min. 98
calcium (Ca).....	max. 0,3 ppm	240-420 nm.....	min. 97,7
chromium (Cr).....	max. 0,02 ppm	max. absorbance at	
cobalt (Co).....	max. 0,02 ppm	195 nm.....	max. 0,155
copper (Cu).....	max. 0,02 ppm	200 nm.....	max. 0,046
iron (Fe).....	max. 0,02 ppm	230 nm.....	max. 0,009
lead (Pb).....	max. 0,1 ppm	240-420 nm.....	max. 0,010
magnesium (Mg).....	max. 0,1 ppm		
manganese (Mn).....	max. 0,01 ppm	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<sub>20</sub> °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