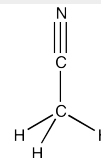


Identification

CH₃CN
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 %	residue on evaporation.....	max. 0,0001 %
identity (IR-spectrum).....	passes test	water (K.F.).....	max. 0,01 %
density (20°/4°).....	0,779 - 0,783	suitability for use in LC-MS.....	passes test
acidity.....	max. 0,0002 meq/g		
aluminium (Al).....	max. 0,00005 %	min. transmission/max. absorbance	
barium (Ba).....	max. 0,00001 %	in a 1,0 cm cell at	
cadmium (Cd).....	max. 0,000005 %	wavelength:	T(%) A (AU)
calcium (Ca).....	max. 0,00001 %	195 nm.....	80 % 0,097 AU
chromium (Cr).....	max. 0,000002 %	200 nm.....	95 % 0,022 AU
cobalt (Co).....	max. 0,000002 %	210 nm.....	97 % 0,013 AU
copper (Cu).....	max. 0,000002 %	220 nm.....	98 % 0,009 AU
iron (Fe).....	max. 0,00001 %	230 nm.....	99 % 0,004 AU
lead (Pb).....	max. 0,00001 %		
magnesium (Mg).....	max. 0,00001 %	gradient grade (210 nm)	
manganese (Mn).....	max. 0,000002 %	maximum background absorbance:	0,012 AU
nickel (Ni).....	max. 0,000002 %	maximum peak absorbance:	0,001 AU
potassium (K).....	max. 0,00001 %	gradient grade (254 nm)	
silver (Ag).....	max. 0,00001 %	maximum peak absorbance:	0,0002 AU
sodium (Na).....	max. 0,00001 %		
tin (Sn).....	max. 0,00001 %	Microfiltered through membranes	
zinc (Zn).....	max. 0,00001 %	of pore diameter 0,22 µm	

Packaging
Packaging Code

1 l  AC03711000
2,5 l  AC03711000

Physical data

- Density: 0,786 g/cm³
- 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/m³
- 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: Harmful if swallowed.

H312: Harmful in contact with skin.

H332: Harmful if inhaled.

H319: Causes serious eye irritation.

Precautionary Statements:

P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.

P241: Use explosion-proof electrical / ventilating / lighting / equipment.

P261: Avoid breathing dust / fume / gas / mist / vapours / spray.

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.

P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

• LD 50 (oral, rat): 2730 - 3800 mg/kg

• MAK: 20 ml/m³, 34 mg/m³

• WGK: 2

• Poison class CH (Swiss): 2

Transport/storage

• ADR: 3 F1 II • UN 1648 • ACETONITRILE

• IMDG: 3 II • UN 1648 • ACETONITRILE

• IATA/ICAO: 3 II • UN 1648 • ACETONITRILE

• PAX: 305

• CAO: 307

• Store between 15°C and 25°C