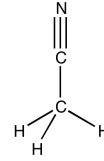


Identification

CH₃CN
M = 41,05 g/mol
CAS [75-05-8]
EC number: 200-835-2
Taric code: 2926 90 95



Synonyms

Methyl cyanide, Cyanomethane

Specifications

assay (G.C.).....	min. 99,9 %	min. transmission/max. absorbance	
identity (IR-spectrum).....	passes test	in a 1,0 cm cell at	
density (20°/4°).....	0,779 - 0,783	wavelength:	T(%) A (AU)
acidity.....	max. 0,0002 meq/g	195 nm.....	80 % 0,097 AU
aluminium (Al).....	max. 0,05 ppm	200 nm.....	95 % 0,022 AU
barium (Ba).....	max. 0,02 ppm	210 nm.....	97 % 0,013 AU
cadmium (Cd).....	max. 0,02 ppm	220 nm.....	98 % 0,009 AU
calcium (Ca).....	max. 0,1 ppm	230 nm.....	99 % 0,004 AU
chromium (Cr).....	max. 0,02 ppm	gradient grade (210 nm)	
cobalt (Co).....	max. 0,02 ppm	maximum background absorbance:	0,012 AU
copper (Cu).....	max. 0,02 ppm	maximum peak absorbance:	0,001 AU
iron (Fe).....	max. 0,02 ppm	gradient grade (254 nm)	
lead (Pb).....	max. 0,1 ppm	maximum peak absorbance:	0,0002 AU
magnesium (Mg).....	max. 0,02 ppm	UHPLC-MS test ESI+.....	max. 5 ppb Reserpin
manganese (Mn).....	max. 0,02 ppm	UHPLC-MS test ESI-.....	max. 20 ppb Digoxin
nickel (Ni).....	max. 0,02 ppm	Microfiltered through membranes	
potassium (K).....	max. 0,1 ppm	of pore diameter 0,1 µm	
silver (Ag).....	max. 0,1 ppm		
sodium (Na).....	max. 0,1 ppm		
tin (Sn).....	max. 0,1 ppm		
zinc (Zn).....	max. 0,1 ppm		
residue on evaporation.....	max. 0,0001 %		
water (K.F.).....	max. 0,01 %		
suitability for use in UHPLC-MS.....	passes test		

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