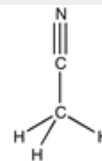


Identification

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 %
identity (IR-spectrum)..... passes test
density (20°/4°)..... 0,779 - 0,783
acidity..... max. 0,0002 meq/g
aluminium (Al)..... max. 25 ppb
barium (Ba)..... max. 5 ppb
cadmium (Cd)..... max. 5 ppb
calcium (Ca)..... max. 25 ppb
chromium (Cr)..... max. 5 ppb
cobalt (Co)..... max. 5 ppb
copper (Cu)..... max. 5 ppb
iron (Fe)..... max. 5 ppb
lead (Pb)..... max. 5 ppb
magnesium (Mg)..... max. 10 ppb
manganese (Mn)..... max. 5 ppb
nickel (Ni)..... max. 5 ppb
potassium (K)..... max. 10 ppb
silver (Ag)..... max. 5 ppb
sodium (Na)..... max. 50 ppb
tin (Sn)..... max. 5 ppb

zinc (Zn)..... max. 5 ppb
residue on evaporation..... max. 0,0001 %
water (K.F.)..... max. 0,01 %
suitability for use in LC-MS..... passes test

min. transmission/max. absorbance in a 1,0 cm cell at
wavelength:..... T(%) A (AU)
195 nm..... 80 % 0,097 AU
200 nm..... 95 % 0,022 AU
210 nm..... 97 % 0,013 AU
220 nm..... 98 % 0,009 AU
230 nm..... 99 % 0,004 AU

gradient grade (210 nm)
maximum background absorbance:..... 0,012 AU
maximum peak absorbance:..... 0,001 AU
gradient grade (254 nm)
maximum peak absorbance:..... 0,0005 AU

Microfiltered through membranes of pore diameter 0,1 µm

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+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.



AC0371

Technical Data Sheet

Acetonitrile, LC-MS

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