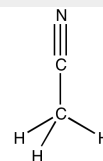


Identification

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 %	chromium (Cr).....	max. 0,02 ppm
identity (IR-spectrum).....	passes test	cobalt (Co).....	max. 0,02 ppm
density (20°/4°).....	0,779 - 0,783	copper (Cu).....	max. 0,02 ppm
appearance.....	clear	iron (Fe).....	max. 0,1 ppm
acidity.....	max. 0,0002 meq/g	lead (Pb).....	max. 0,1 ppm
alkalinity.....	max. 0,0001 meq/g	magnesium (Mg).....	max. 0,1 ppm
colour (Hazen).....	max. 10	manganese (Mn).....	max. 0,02 ppm
cyanides (CN).....	max. 0,005 %	nickel (Ni).....	max. 0,02 ppm
aluminium (Al).....	max. 0,5 ppm	tin (Sn).....	max. 0,1 ppm
barium (Ba).....	max. 0,1 ppm	zinc (Zn).....	max. 0,1 ppm
boron (B).....	max. 0,02 ppm	reaction to H ₂ SO ₄	passes test
cadmium (Cd).....	max. 0,05 ppm	residue on evaporation.....	max. 0,0005 %
calcium (Ca).....	max. 0,5 ppm	water (K.F.).....	max. 0,001 %

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