



>>Acetonitrile

Methyl cyanide. Cyanomethane. Methanecarbonitrile. Ethanenitrile

HFC99-Z

[75-05-8]

H₃CCN

C₂H₃N M 41.052. 41.026549. C 58.52%; H 7.37%; N 34.12%

Good solv. for inorganic salts and in org. synthesis. Polymer solvent. Used for sepn. of butadiene by extractive dist. CN⁽⁻⁾ is a metabolite and a thermal decomposition product.. Liq. with almond-ethereal odour. Misc. H₂O, most org. solvs., immisc. petrol. d₄²⁰ 0.783. Mp -44.9°. Bp 81.6°. pK_a -4.3 (HClO₄). Forms constant-boiling mixt. with H₂O contg. 84% MeCN, Bp 76°.

♦ Highly flammable, fl. p. 6° (oc), autoignition temp. 524°. Human fatalities reported following ingestion. LD₅₀ (rat, orl) 2730 mg/kg. Toxic effects, which may be delayed, are due to release of CN⁽⁻⁾. Exposure by skin absorption or inhalation causes headache, dizziness and nausea, and convulsions, coma and death at higher conc. OES: long-term 40 ppm; short-term 60 ppm. AL7700000.

Supplier: Aldrich:31645-8. Fluka:710. Sigma:P7216. Supelco:R80-1005

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