

Technical Data Sheet



AMT100030 Acetonitrile Gradient grade for liquid chromatography

TATChrosolve®

General product Information:

CAS number	75-05-8
Synonyms	ACN, Methyl cyanide, Ethyl nitrile, Cyanomethane
Overview	With their high degree of UV transmittance, low particle count, low acidity and alkalinity and low evaporation residue level, TATChrosolv® solvents are ideal for reproducible separations. Since separations are normally carried out under gradient conditions in analytical HPLC, we offer solvents in "gradient grade" as well as "isocratic grade". This enables to minimize the gradient effect of the solvent involved.
Grade	Reag. Ph Eur
Hill Formula	C ₂ H ₃ N
Chemical formula	CH ₃ CN
Molar Mass	41.05 g/mol
Structure formula	
Image	<chem>H3C#N</chem>

Chemical/Physical Data:

Boiling point	81.6 °C (1013 hPa)
Density	0.786 g/cm ³ (20 °C)
Explosion limit	3.0 - 17 % (V)
Flash point	2 °C
Ignition temperature	524 °C
Melting Point	-45.7 °C
Vapor pressure	97 hPa (20 °C)
Refractive Index	1.34
Solubility	(20 °C) soluble

Toxicological Data:

LD 50 oral	LD50 Rat 2730-3800mg/kg
LD 50 dermal	LD50 Rabbit 988 mg/kg

Packaging Information:

Order Number	Package	Packaging
AMT100030.1000	1 L	Glass Bottle
AMT100030.2500	2.5 L	Glass Bottle
AMT100030.4000	4 L	Glass Bottle