



# Product Specification

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## ACETONITRILE LCMS & HPLC

PRODUCT CODE	700662
SYNONYMS	Methyl cyanide
C.I. NO.	N/A
CASR NO.	75-05-8
ATOMIC OR MOLECULAR FORMULA	CH <sub>3</sub> CN
ATOMIC OR MOLECULAR WEIGHT	41.05
PROPERTIES	Limpid liquid, high dielectric constant, high polarity, strongly reactive, burns with a luminous flame.
	$\text{H}_3\text{C} \equiv \text{N}$
PARAMETER	LIMIT
Description	A clear liquid, not more than 10 Hz units in colour
Solubility	Miscible with water & Methanol forming a clear & colourless solution.
Minimum assay (BY GC)	99.9%
MAXIMUM LIMIT OF IMPURITIES	
Water (KF)	100 ppm
Residue after evaporation	0.8 ppm
Fluorescence Trace Impurities (as quinine base), ppb:	1.0 ppb
Measured at Emission Maximum for Impurities	
Measured at 450 nm Emission	0.3 ppb
Gradient Elution Test Ultraviolet Absorbance (a.u.)	
at 254 nm	0.0005
at 210 nm	0.002
LC/MS Suitability - Largest Response on ESI-Positive Mode (as Reserpine)	50 ppb
Trace Impurities	
Aluminium (Al)	50.0 ppb
Calcium (Ca)	50.0 ppb
Iron (Fe)	50.0 ppb
Magnesium (Mg)	50.0 ppb
Lithium (Li)	30.0 ppb
Nickel (Ni)	30.0 ppb
Potassium (K)	50.0 ppb
Sodium (Na)	50.0 ppb
Note(s) : 1] Assay (if applicable) method mentioned.	
WARNING	IMDG Code : 3/II
HAZARD STATEMENTS : May cause respiratory irritation. Flammable liquid and vapour. Harmful if swallowed.	UN No. : 1648
Causes mild skin irritation. Causes eye irritation.	IATA : 3
PRECAUTIONARY STATEMENTS :	
Prevention : Ground/bond container and receiving equipment. Use only nonsparking tools. Take precautionary Measures against static discharge. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flame - No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Wear protective gloves and eye/face protection.	
Response : If eye irritation persists, get medical advice/attention. If skin irritation occurs, seek medical advice/attention. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment: refer to	



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Label or MSDS. If on skin or hair: remove/take off immediately all contaminated clothing. Rinse with water/shower. In case of fire, use foam for extinction.

**Disposal :** Allow to evaporate in safe open area (applicable for small quantities). The chemical should be burnt in a chemical incinerator equipped with burner and scrubber. If the volumes are larger than 500ml and no incinerator and site of evaporation is not available then transfer the waste chemical to waste solvent drum for collection by specialist disposal company.

Hazard Pictogram(s) :



GHS07



GHS02