

ACETONITRILE LCMS

PRODUCT CODE	700660
SYNONYMS	Methyl cyanide
C.I. NO.	N/A
CASR NO.	75-05-8
ATOMIC OR MOLECULAR FORMULA	CH₃CN
ATOMIC OR MOLECULAR WEIGHT	41.05
PROPERTIES	Limpid liquid, high dielectric constant, high polarity, strongly reactive, burns with a luminous flame.
	H₃C—≡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	
Colour scale	10 APHA
Water (by KF)	0.02%
Residue on evaporation	0.0001%
Titration acid	0.008 meq/g
Titration base	0.0006 meq/g
ESI+ mode (as Reserpine)	50 ppb
ESI+ mode (as 4-Nitrophenol)	50 ppb
LC gradient suitability	Passes test
Aluminium (Al)	25 ppb
Barium (Ba)	5 ppb
Cadmium (Cd)	5 ppb
Calcium (Ca)	25 ppb
Chromium (Cr)	5 ppb
Cobalt (Co)	5 ppb
Copper (Cu)	5 ppb
Iron (Fe)	5 ppb
Lead (Pb)	5 ppb
Lithium (Li)	5 ppb
Magnesium (Mg)	25 ppb
Manganese (Mn)	5 ppb
Nickel (Ni)	5 ppb
Potassium (K)	25 ppb
Silver (Ag)	5 ppb
Sodium (Na)	50 ppb
Tin (Sn)	5 ppb
Zinc (Zn)	5 ppb

UV absorbance	
at 190 nm	1.00
at 195 nm	0.15
at 200 nm	0.05
at 205 nm	0.04
at 210 nm	0.02
at 220 nm	0.01
at 254 nm	0.005

Note(s) : 1] Assay (if applicable) method mentioned.

WARNING

HAZARD STATEMENTS : May cause respiratory irritation. Flammable liquid and vapour. Harmful if swallowed. Causes mild skin irritation. Causes eye irritation.

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 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.

IMDG Code : 3/II

UN No. : 1648

IATA : 3

Hazard Pictogram(s) :



GHS07



GHS02

Replace date 02-Mar-2024