

ACETONITRILE FOR HPLC GRADIENT GRADE

PRODUCT CODE		700640
SYNONYMS		Methyl cyanide
C.I. NO.		N/A
CASR NO.		75-05-8
ATOMIC OR MOLECULAR FORMULA		CH ₃ CN
ATOMIC OR MOLECULAR WEIGHT		41.05
PROPERTIES		Limpid liquid, high dielectric constant, high polarity, strongly reactive, burns with a luminous flame.
PARAMETER		LIMIT
Description		A clear colourless liquid, not more than 10 APHA in colour.
Solubility		50% solution in water is clear & colourless.
Minimum assay (By GC)		99.9%
Wt per ml at 20°C		0.781-0.783 g
Refractive index (n) ²⁰ _D		1.343-1.345
UV transmission (Min.%)		
193 nm		60%
195 nm		80%
200 nm		95%
220 nm		98%
230 nm		98%
254 nm		99%
Gradient test :		
Highest peak at 210 nm		2 mAU
Highest peak at 254 nm		0.5 mAU
MAXIMUM LIMIT OF IMPURITIES		
Residue on evaporation		0.0003%
Water		0.03%
Acidity (as CH ₃ COOH)		0.002%
Alkalinity (as NH ₃)		0.0002%
Filtered through 0.2 um membrane filter. Packed under inert gas.		
Note(s) : 1] Assay (if applicable) method mentioned.		
WARNING		IMDG Code : 3/II UN No. 1648 IATA 3
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.		
Hazard Pictogram(s) :		



Product Specification

cdhfinechemical.com



GHS07



GHS02

Replace Date 18-Oct-2025