

Product Name: Acetonitrile, LC-MS Grade, 99.8%, Thermo Scientific Chemicals

Catalog Number: 047138.M1

CAS Number: 75-05-8
IUPAC Name: acetonitrile
Molecular Formula: C₂H₃N
Molecular Weight: 41.05
InChI Key: WEVYAHXRMPXWCK-UHFFFAOYSA-N
SMILES: CC#N
Synonym: acetonitrile NCMc MeCN cyanure de methyl acetonitrile, 1-(14)c-labeled usaf EK-488
 1-(14)c-labeled acetonitrile acetonitrile, 3H-labeled 1-(14)C-labeled acetonitrile
 3h-labeled acetonitrile

Product Specification

Form: Clear liquid
Trace Metal: ≤ 0.02 ppm each of: Chromium (Cr), Cobalt (Co), Lead (Pb), Nickel (Ni)
Trace Metal: ≤ 0.5 ppm each of: Aluminum (Al) and Cadmium (Cd):
Trace Metal: ≤ 0.1 ppm each of: Barium (Ba), Calcium (Ca), Iron (Fe), Magnesium (Mg), Potassium (K), Silver (Ag), Sodium (Na), Tin (Sn), Zinc (Zn)
Color (APHA): ≤ 5
Assay (unspecified): Fluorescence at emission max for impurities (at 254 nm): ≤ 1 ppb
Assay (Titration): Titrable acid ≤ 0.008 meq/g
Assay (Titration): Titrable base ≤ 0.0006 meq/g
Assay (GC): ≥ 99.8% (corrected for water)
Assay (GC): GC-ECD Responsive residue (single peak (as Heptachlorepoxyde): ≤ 10 ppt
Assay (GC): GC-FID Responsive residue (single peak) (as 2-Octanol): ≤ 5 ppb
Assay (HPLC): LC gradient elution suitability at: 210nm: ≤ 3 mAU and at 254nm: ≤ 0.5 mAU
Comment: Submicron filtered
Water Content (Karl Fischer Titration): ≤ 0.01%
LCMS: ≤ 50 ppb negative mode as Nitrophenol
LCMS: ≤ 50 ppb positive mode as Reserpine
Optical Absorbance at: 190 nm: ≤ 1.00 AU, 195 nm: ≤ 0.14 AU, 200 nm: ≤ 0.05 AU, 210 nm: ≤ 0.04 AU, 220 nm: ≤ 0.02 AU, 230 nm: ≤ 0.01 AU, 254 nm: ≤ 0.005 AU, 400 nm: ≤ 0.005 AU

Trace Metal: ≤ 0.01 ppm each of: Copper (Cu), Manganese (Mn)

Residue on Evaporation: ≤ 1 ppm

Date Of Print: 05/16/2024

Product Specifications are subject to amendment and may change over time. Data contained is accurate as of the date printed.