

Product Name: Acetonitrile, LC-MS Grade, 99.8%

Catalog Number: 047138.K2

CAS Number: 75-05-8

IUPAC Name: acetonitrile

Molecular Formula: C2H3N

Molecular Weight: 41.05

InChl Key: WEVYAHXRMPXWCK-UHFFFAOYSA-N

SMILES: CC#N

Synonym: acetonitrile NCMe 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: ≤0.1 ppm each of: Barium (Ba), Calcium (Ca), Iron (Fe), Magnesium (Mg), Potas

sium

(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/gAssay (Titration):Titrable base ≤0.0006 meq/g

Assay (GC): GC-ECD Responsive residue (single peak (as Heptachlorepoxide):≤ 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 ≤0.01%

Titration):

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 n

m:

≤ 0.02 AU, 230 nm: ≤ 0.01 AU, 254 nm: ≤0.005 AU, 400 nm: ≤0.005 AU

Residue on Evaporation: ≤1 ppm

Trace Metal: ≤ 0.02 ppm each of: Chromium (Cr), Cobalt (Co(, Lead (Pb), Nickel (Ni)



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

Trace Metal: ≤ 0.5 ppm each of: Aluminum (Al) and Cadmium (Cd):

Assay (GC): ≥99.8% (corrected for water)

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