Product Specification Sheet

Pristine® Acetonitrile, HPLC

Product Number: 1910-5

Product Information	
Formula	C_2H_3N
Molecular Weight (g/mol)	41.05
Grade	HPLC
CAS Number	75-05-8
Beilstein/REAXYS Number	741857
EC Number	200-835-2
MDL number	MFCD00001878
UNSPSC Code	41116105
Exp. Date after Mfg. Date	3 years
Test Method	ACS 11th Edition

Specifications	
Meets ACS Specification	Yes
Appearance (color)	Colorless
Form	Liquid

Purity (GC area %)	Min 99.9%
Assay (by GC)	Min 99.9 %
Color (APHA)	Max 10
Water	Max 0.01 %
Residue after evaporation	Max 1 ppm
Titratable Acid	Max 0.0008 mEq/g
Titratable Base	Max 0.0006 mEq/g
Filtered by 0.2um filter	Yes
Ultraviolet Spectrophotometry	
UV Absorbance 195 nm	Max 0.15
UV Absorbance 200 nm	Max 0.05
UV Absorbance 205 nm	Max 0.04
UV Absorbance 210 nm	Max 0.02
UV Absorbance 220 nm	Max 0.01
UV Absorbance 254 nm	Max 0.005
Gradient Elution Test	
Largest eluted peak (254nm)	Max 0.5 mAU
Largest eluted peak (210nm)	Max 2 mAU
Fluorescence Trace Impurities	

at 450nm Emission	Max 0.3 ppb
at Emission Max for impurities	Max 0.5 ppb

Physical Properties	
Vapor Pressure	72.8 hPa (20 °C)
Vapor Density	1.41 (vs air)
Boiling Point	81 - 82 °C (lit.)
Melting Point	−45 °C (lit.)
Density	0.786 g/mL at 25 °C (lit.)
Autoignition Temperature	973 °F
Explosion Limit	16 %
Refractive Index	$n_{20/D}$ 1.344 (lit.)