

Product Specification

Standard number : LC-001
Issue number : CDM01
Code number : 33000106

Name : Acetonitrile

(Other name :)
Grade : LC
Volume : 1 L

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| No. | Item | (unit) | Specification | Test Procedure |
|-----------|---|--------|---------------|---|
| 1 | Appearance (Form) | - | Liquid | Visual method |
| 2 | (Hue) | - | Colorless | Visual method |
| 3 | Assay (CH ₃ CN) (GC) | % | min. 99.8 | Gas chromatography |
| 4 | Density (20°C) | g/mL | 0.780 ~ 0.783 | Density and specific gravity meter method |
| 5 | Refractive index n_D^{20} | - | 1.343 ~ 1.346 | Refractometer method |
| 6 | Absorbance (d:1cm, reference:water) | - | | Molecular absorption spectrometry |
| | 200nm | | max. 0.05 | |
| | 210nm | | max. 0.03 | |
| | 220nm | | max. 0.02 | |
| | 225nm | | max. 0.01 | |
| | 230nm | | max. 0.01 | |
| 240~400nm | max. 0.009 | | | |
| 7 | Gradient test 210nm | - | max. 0.02 | HPLC |
| 8 | Gradient test 254nm | - | max. 0.004 | HPLC |
| 9 | Water | % | max. 0.05 | Karl Fischer titration method |
| 10 | Residue on evaporation | % | max. 0.001 | Weighting method |
| 11 | Acid (as CH ₃ COOH) | % | max. 0.001 | Titrimetry |
| 12 | Hydrogen cyanide | % | max. 0.0005 | Colorimetry |
| 13 | Peroxides (as H ₂ O ₂) | % | max. 0.0005 | Titrimetry |
| 14 | Allyl alcohol | % | max. 0.01 | Gas chromatography |
| 15 | Ammonia (NH ₃) | ppm | max. 0.3 | Titrimetry |
| 16 | Substances reducing permanganate | - | to pass test | Colorimetry |
| 17 | Fluorescence test | - | to pass test | Fluorescence spectrometry |
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