



Alpha Chemika



ISO 9001 QUALITY SYSTEM CERTIFIED ORGANIZATION

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CERTIFICATE OF ANALYSIS

Name Of Item : ACETONITRILE HPLC Gradient 99.9% **Formula :** CH₃CN

M.W. : 41.05

Batch No. : A0073

CAS NO. : 75-05-8

Cat. No. : AL4401

Date Of Mfg. :

Date of Analysis :

| Type Of Test | Standard | Observed |
|---|--------------------------------------|--------------------------------------|
| Description | Clear, colourless liquid | Clear, colourless liquid |
| Identity (IR) | Passes test | Passes test |
| Assay (GC) | Min. 99.9% | 99.95% |
| Density (d ₂₀ ⁴) | 0.782 – 0.783 | 0.7823 |
| Acidity | <0.0002meq/g | 0.00005 meq/g |
| Alkalinity | <0.0002meq/g | NIL |
| Water | <0.03% | 0.005% |
| Non volatile substances | <0.0005% | 0.0004% |
| UV Transmittance at 195 nm | NLT 75% | 76% |
| UV Transmittance at 200nm | NLT 95% | 96.78% |
| UV Transmittance at 210nm | NLT 96% | 98.30% |
| UV Transmittance at 220nm | NLT 97% | 98.80% |
| UV Transmittance at 230nm | NLT 98% | 99.78% |
| UV Transmittance at 240nm | NLT 99% | 99.90% |
| Gradient elution test at 210 nm | NMT 10 mAU | 9 mAU |
| Gradient elution test at 254 nm | NMT 5 mAU | 4 mAU |
| Dilution test (1:1, 1:2 water) | The solution is clear and colourless | The solution is clear and colourless |

Results : The above product complies with HPLC Gradient grade