



...Pure Quality

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## Certificate of Analysis

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**Product:** ACS/HPLC Acetonitrile  
**Cat:** CP-C0157  
**Lot:** DQ716  
**Date of Manufacture:** 9/14/16  
**Use Before Date:** 3/15/18

Meets ACS Specifications

| <u>Test</u>                    | <u>Specification</u> |             | <u>Result</u> | <u>Units</u> |
|--------------------------------|----------------------|-------------|---------------|--------------|
|                                | <u>Min.</u>          | <u>Max.</u> |               |              |
| Appearance                     | Clear                |             | Clear         |              |
| Water by Karl Fisher Titration |                      | 0.05        | 0.001         | %            |
| UV Cutoff                      |                      | 190         | 188           | nm           |
| Refractive Index (20°C)        | 1.3434               | 1.3446      | 1.3440        |              |
| Residue                        |                      | 3           | <1            | mg/L         |
| GC Analysis                    | 99.9                 |             | 99.99         | %            |
| Color (APHA)                   |                      | 10          | <10           |              |
| Titration Acid                 |                      | 8.0         | 0.29          | µeq/g        |
| Titration Base                 |                      | 0.6         | 0.01          | µeq/g        |
| HPLC Gradient @ 254 nm         |                      | 0.005       | <0.0050       | AU           |
| UV Absorbance @ 200 nm         |                      | 0.070       | 0.0312        | AU           |
| UV Absorbance @ 210 nm         |                      | 0.040       | 0.0192        | AU           |
| UV Absorbance @ 225 nm         |                      | 0.020       | 0.0081        | AU           |
| UV Absorbance @ 250 nm         |                      | 0.005       | 0.0033        | AU           |
| UV Absorbance @ 350 nm         |                      | 0.005       | 0.0005        | AU           |

Quality Control Approval

LIMS Sample No.: AH03511  
9/14/2016