



...Pure Quality

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## Certificate of Analysis

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**Product:** ACS/HPLC Methanol  
**Cat:** CP-C2305  
**Lot:** FEK809  
**Description:** ACS Reagent, for HPLC, Spectrophotometry, meets analytical specifications of USP, >99%  
**Date of Manufacture:** 2025-Aug-26  
**Use Before Date:** 2028-Aug-25

Meets ACS/ USP/HPLC 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 Fischer Titration                                         |                      | 0.05        | 0.016         | %            |
| UV Cutoff                                                               |                      | 205         | 202           | nm           |
| Refractive Index (20°C)                                                 | 1.3280               | 1.3288      | 1.3288        |              |
| Residue                                                                 |                      | 3           | <0.5          | mg/L         |
| GC Analysis                                                             | 99.9                 |             | >99.99        | %            |
| Substances Darkened by Sulfuric Acid                                    | Passes test          |             | Passes test   |              |
| Substances Reducing Permanganate                                        | Passes test          |             | Passes test   |              |
| Color (APHA)                                                            |                      | 10          | <10           |              |
| Solubility in Water                                                     | Passes test          |             | Passes test   |              |
| Carbonyl Compounds<br>(each of acetone, formaldehyde, and acetaldehyde) |                      | 0.001       | <0.001        | %            |
| Titration Acid                                                          |                      | 0.3         | 0.22          | µeq/g        |
| Titration Base                                                          |                      | 0.2         | 0.06          | µeq/g        |
| HPLC Gradient @ 254 nm                                                  |                      | 0.005       | <0.0010       | AU           |
| UV Absorbance @ 225 nm                                                  |                      | 0.180       | 0.1502        | AU           |
| UV Absorbance @ 250 nm                                                  |                      | 0.020       | 0.0131        | AU           |
| UV Absorbance @ 300 nm                                                  |                      | 0.005       | <0.0001       | AU           |
| UV Absorbance @ 400 nm                                                  |                      | 0.005       | <0.0001       | AU           |

Quality Control Approval