# PT. SMART LAB INDONESIA

MANUFACTURER OF ANALYTICAL REAGENTS

F/QCL/009 Rev.02

## CERTIFICATE OF ANALYSIS

Product Name : Diethyl Ether AR

Mol. Formula : $(C_2H_5)_2O$

Mol. Weight : 74.12 g/mol

Catalog No. : A-1033 Batch No. : Sample COA

Cas No : 60-29-7 Shelf Life : 36 Months

| NO. | TESTS | UNITS | SPECIFICATIONS | RESULTS |
|---|---|---|---|---|
| 1. | Appearance | _ | Clear colorless liquid, with characteristic odor | Clear colorless liquid, with characteristic odor |
| 2. | Assay (GC) | wt % | min 99.0 | 99.926 |
| 3. | Color | Hazen | max 10 | 10 |
| 4. | Wt. Per ml at 20 °C | $g/cm^3$ | 0.712 – 0.715 | 0.712 |
| 5. | Refractive Index | $n^{20}_D$ | 1.351 – 1.353 | 1.352 |
| 6. | Water - insoluble matter | _ | Passes test | Passes test |
| 7. | Water | wt % | max 0.2 | 0.01331 |
| 8. | Acidity (as $CH_3COOH$) | wt % | max 0.001 | 0.00072 |
| 9. | Residue after evaporation | wt % | max 0.001 | 0.00074 |
| 10. | Aldehydes and ketones ($CH_3CHO$) | wt % | max 0.002 | < 0.002 |
| 11. | Ethanol ($C_2H_5OH$) | wt % | max 0.05 | NIL |
| 12. | Methanol ($CH_3OH$) | wt % | max 0.02 | NIL |
| 13. | Peroxide (as $H_2O_2$) | wt % | max 0.0001 | < 0.0001 |
| 14. | Substances darkened by $H_2SO_4$ | _ | passes test | Passes test |

COA SAMPLE

Result: The above product corresponds to AR Grade

*Reference or standard of product specification to Analar standard and ACS specification*

PT. SMART - LAB INDONESIA

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