



PT. SMART-LAB INDONESIA

MANUFACTURER OF ANALYTICAL REAGENTS

CERTIFICATE OF ANALYSIS

| | | | |
|--------------|----------------------|--------------------|------------------|
| Product Name | : Boric acid | Molecular Weight | : 61.83 g/mol |
| Catalog No. | : A-2013 | Batch No. | : 260322001 |
| Grade | : Analytical Reagent | Manufacturing Date | : March 26, 2022 |
| Formula | : H_3BO_3 | Expire Date | : March, 2027 |
| Cas No | : 10043-35-3 | | |

| NO | ITEM TEST | UNITS | SPECIFICATION | RESULT |
|-----|--------------------------|-------|---------------------------------|--------------|
| 1. | Appearance | — | White crystal, powder or flakes | White powder |
| 2. | Assay (acidimetric) | wt % | min 99.5 | 99.915 |
| 3. | Alcohol insoluble matter | wt % | max 0.005 | 0.0032 |
| 4. | Water insoluble matter | wt % | max 0.005 | 0.0022 |
| 5. | Chloride (Cl) | wt % | max 0.0002 | < 0.0002 |
| 6. | Phosphate (PO_4) | wt % | max 0.001 | 0.00077 |
| 7. | Sulphate (SO_4) | wt % | max 0.001 | < 0.001 |
| 8. | Arsenic (As) | wt % | max 0.0001 | < 0.0001 |
| 9. | Calcium (Ca) | wt % | max 0.001 | 0.00015 |
| 10. | Magnesium (Mg) | wt % | max 0.0005 | < 0.0005 |
| 12. | Iron (Fe) | wt % | max 0.0002 | < 0.0002 |
| 13. | Heavy metals (as Pb) | wt % | max 0.001 | < 0.001 |

Result : The above product corresponds to AR Grade

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

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Head QC