



# Product Specifications

## Fuel-Grade Isobutanol

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| <b>Synonyms:</b><br>isobutanol, isobutyl alcohol,<br>2-methyl-1-propanol | <b>Chemical Formula:</b><br>$C_4H_{10}O$ |
| <b>Molecular Weight:</b><br>74.12 g/mol                                  | <b>CAS Number:</b><br>78-83-1            |

| Physical Properties          | Methods          | Specification | Units     |
|------------------------------|------------------|---------------|-----------|
| Isobutanol                   | Gevo SOP F15*    | 98 min        | %         |
| Color by Pt-Co Scale         | ASTM D1209       | 10 max        | —         |
| Water by Karl Fischer (%)    | ASTM E1064       | 1.0 max       | vol %     |
| Acid Number (as Acetic Acid) | ASTM D1613       | 0.007 max     | wt %      |
| Sulfur Content               | ASTM D5453       | 30 max        | ppm       |
| Sulfate Content              | ASTM D7318/D7319 | 4 max         | ppm       |
| Inorganic Chloride Content   | ASTM D512        | 8 max         | ppm       |
| Solvent Washed Gum           | ASTM D381        | 5 max         | mg/100 mL |

\*Based on % area of isobutanol on GC chromatogram.