

SHOWA KAKO CORPORATION

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Quality Specification

Product : Lactic acid (90%)

| | |
|-------------------------|--|
| Grade | JSFA8 |
| Chemical name | DL-lactic acid |
| CAS No. | 50-21-5 |
| Chemical formula | C ₃ H ₆ O ₃ |
| M.W. | 90.08 |

【 Requirements 】

| Test Item | Specification |
|---|---|
| Description | Lactic acid occurs as a white to light yellow solid or colorless to light yellow, clear liquid. It is odorless or has slight or no unpleasant odor. It has an acid taste. |
| Identification test | Passes the test |
| Clarity of solution | Passes the test |
| Citric acid, oxalic acid, tartaric acid, and phosphoric acid | Passes the test |
| Sulfate | 0.010 % max.(as SO ₄ for 80% solution) |
| Cyanide | Passes the test |
| Heavy metals | 10 µg/g max.(as Pb for 80% solution) |
| Iron | 10 µg/g max.(as Fe for 80% solution) |
| Arsenic | 4.0 µg/g max.(as As ₂ O ₃ for 80% solution) |
| Volatile fatty acids | Passes the test |
| Methanol | 0.20v/w % max. (for 80% solution) |
| Readily carbonizable substances | Passes the test |
| Residue on Ignition | 0.10 % max. |
| Assay | 90.0-92.0% |

