



Certificate of Analysis

Pyruvic Acid Sodium Salt

Catalog Number: PA1002
CAS Number: 113-24-6
Synonym(s): Sodium pyruvate, α -Ketopropionic acid sodium salt, 2-Oxopropionic acid sodium salt
Molecular Formula: $C_3H_3O_3Na$
Molecular Weight: 110.04
Storage: 2°C – 8°C
Retest Date: Three years after date of manufacture.

Test	Specification
Appearance	White to faint yellow powder
Assay	$\geq 99.0\%$
Free Acid	$\leq 0.25\%$
Pyruvic Ion	$\geq 76.0\%$
Clarity of Solution	$\geq 90\%$
Solubility	Clear & colorless to faint yellow
pH	5 - 7
Moisture (LOD)	$\leq 0.5\%$
Chloride	$\leq 0.01\%$
Sulfate	$\leq 0.04\%$
Heavy Metals	$\leq 10\text{ppm}$
Arsenic	$\leq 1\text{ppm}$

Approved by:

John Grubb, PhD
Gojira Fine Chemicals, LLC
Quality Manager
Tel: 440-539-7033 Fax: 888-211-5523
john@gojiraafc.com

Date: November 28, 2017