

# *Chem-Impex International, Inc.*

---

**Tel:** (630) 766-2112

**E-mail:** sales@chemimpex.com

**Shipping and Correspondence:**

935 Dillon Drive

Wood Dale, IL 60191

**Fax:** (630) 766-2218

**Web site:** www.chemimpex.com

**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

---

## *Certificate of Analysis*

<b>Catalogue Number</b>	00140
<b>Lot Number</b>	001108-11113-1
<b>Product</b>	<b><math>\alpha</math>-Ketoglutaric acid disodium salt anhydrous</b>

Disodium 2-ketoglutarate

2-Oxopentanedioic acid disodium salt

<b>CAS Number</b>	17091-15-5
-------------------	------------

<b>Molecular Formula</b>	C <sub>5</sub> H <sub>4</sub> Na <sub>2</sub> O <sub>5</sub>
--------------------------	--

<b>Molecular Weight</b>	190.1
-------------------------	-------

---

<b>Appearance</b>	White lyophilisate
-------------------	--------------------

<b>Heavy Metals</b>	< 10 ppm (as Pb)
---------------------	------------------

<b>Trace Metal Analysis</b>	Iron (Fe): < 30 ppm Lead (Pb): < 3 ppm Mercury (Hg): < 0.1 ppm Cadmium (Cd): < 1 ppm
-----------------------------	---

<b>Anion</b>	Chloride (Cl <sup>-</sup> ): < 200 ppm Sulfate (SO <sub>4</sub> <sup>2-</sup> ): < 200 ppm
--------------	---

<b>Cation</b>	Ammonium (NH <sub>4</sub> <sup>+</sup> ): < 200 ppm
---------------	---

<b>Transmission</b>	92.4%
---------------------	-------

<b>Loss on Drying</b>	2.02%
-----------------------	-------

<b>Related Substances</b>	< 0.5%
---------------------------	--------

<b>Assay</b>	99.0%
--------------	-------

<b>Storage</b>	Store at RT
----------------	-------------

## ***Certificate of Analysis***

**Catalog Number: 00140**

**Lot Number: 001108-11113-1**

---

**Remarks**

See material safety data sheet for additional information

For laboratory use only

**The foregoing is a copy of the Certificate of Analysis as provided by our supplier**

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

**Bala Kumar**  
**Quality Control Manager**