

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	02002
<b>Lot Number</b>	000703-124061
<b>Product</b>	<b>Acetoin</b> 3-Hydroxy-2-butanone
<b>CAS Number</b>	513-86-0
<b>Molecular Formula</b>	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>
<b>Molecular Weight</b>	88.11

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<b>Appearance</b>	Colorless to pale yellow liquid
<b>Solubility</b>	Miscible in alcohol, Propylene glycol and water. Insoluble in vegetable oils.
<b>Odor</b>	Pleasant, butter like odor
<b>Boiling point</b>	148 °C
<b>Flash Point</b>	51 °C
<b>Specific Gravity</b>	1.008 at 25 °C
<b>Refractive Index</b>	n <sub>20</sub> /D 1.420
<b>Assay</b>	98.8% (GLC, Sum of isomers)
<b>Grade</b>	Natural, FG, Kosher
<b>Storage</b>	Store at 2 - 8 °C
<b>Remarks</b>	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



**Bala Kumar**  
Quality Control Manager