

# 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

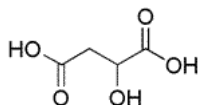
**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

---

## Product Specifications



<b>Catalogue Number</b>	34556
<b>Product</b>	<b>DL-Malic acid</b> (±)-2-Hydroxysuccinic acid DL-Hydroxybutanedioic acid
<b>CAS Number</b>	6915-15-7 , 617-48-1
<b>Molecular Formula</b>	C <sub>4</sub> H <sub>6</sub> O <sub>5</sub>
<b>Molecular Weight</b>	134.09

---

<b>Appearance</b>	White crystal powder or crystalline grains powder
<b>Melting Point</b>	127 - 132 °C
<b>Heavy Metals</b>	≤ 10 ppm
<b>Cation</b>	Arsenic : ≤ 2 ppm Lead : ≤ 2 ppm Mercury : ≤ 1 ppm
<b>Acid value</b>	Fumaric acid : ≤ 1% Maleic acid : ≤ 0.05%
<b>Optical Rotation</b>	[α] <sup>20</sup> <sub>D</sub> = -0.1 to +0.1 °
<b>Infrared Spectrum</b>	Conforms to structure
<b>Insoluble</b>	≤ 0.1% (Water)
<b>Sulfated Ash</b>	≤ 0.1%
<b>Assay</b>	99.0 - 100.5%
<b>Grade</b>	FG, KOSHER
<b>Storage</b>	Store at RT

**For Laboratory Use Only**