



# INDOFINE Chemical Company, Inc.

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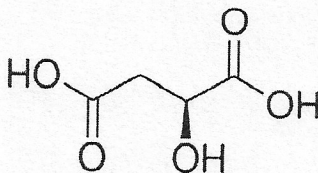
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## Certificate of Analysis

Catalog Number	020741
Product Name	L-Malic acid L-Hydroxybutanedioic acid
Lot Number	RM1B4316
CAS Registry Number	97-67-6
Molecular Formula	C <sub>4</sub> H <sub>6</sub> O <sub>5</sub>
Molecular Weight	134.09
Melting Point	102-105°C
Appearance	White crystalline powder
Solubility 20%(H <sub>2</sub> O)	Clear, colorless
Titration (NaOH)	99.8%
pH 0.5%	2.44
Water (Karl Fischer)	0.01%
Elemental Analysis (actual)	C 11%, N 0.0%
Elemental Analysis (theory)	C 35.8%, H 4.51%, N 0.0%
Ultraviolet	A(280)=0.018, A(260)=0.034 (0.1M, H <sub>2</sub> O)
Infrared Spectrum	Conforms to reference
Caution	Irritant!



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VP