

### 1. Physical property

Product Name	99.5% Food Grade Fumaric Acid
Appearance	White, odorless granules or crystalline powder
Molecular formula	C <sub>4</sub> H <sub>4</sub> O <sub>4</sub>
Molecular weight	116.07
Melting point	286-302 °C
Water Solubility	0.63 g/100 mL (25 °C)
HS Code	291719

### 2. Certificate of Analysis:

ITEM	UNIT	STANDARD	RESULT
Appearance		White Powder	Confirm
Melting Point	°C	286-302	296
Assay	%	≥99.5	99.83
As	ppm	Max3	Less than 3.0
Heavy Metals( As per Pb)	ppm	Max10	Less than 5.0
Fe	ppm	Max10	Less than 10.0
Ca	ppm	Max0.5	Less than 0.5
Hg	ppm	Max0.1	Less than 0.1
Ash	%	Max0.05	0.022
Water	%	Max0.5	0.19
Color	APHA	Max15	13
Sulphate	%	Max0.01	0.005
Maleic Acid	%	Max0.1	0.012
Conclusion	Qualified		