



Name of Material	:	Acid - Citric Acid - Monohydrate [E 302]
Manufacturer	:	NA
Supplier	:	NA
Country of Origin	:	NA
Batch/Lot No.	:	NA
MFG Date	:	NA
EXP Date	:	NA
Challan No.	:	NA
QA Ref. No.	:	NA
QRN Ref. No.	:	NA
Qty. Supplied	:	NA
Date of Received	:	NA
Date of Testing	:	NA
Date of Reporting	:	NA

SN	Description	Specification	Results
01	Physical appearance	Colorless crystals or a white, crystalline powder.	
02	Solubility	Very soluble in water; freely soluble in ethanol (96%); sparingly soluble in ether	
03	Identification	Must be comply to BP	
04	Clarity and color of solution	Solution is clear	
05	Water	7.5% – 9.0%	
06	Assay (Calculated as Anhydrous)	99.50% – 101.0%	
07	Defects Free	Free from dust. Free from foreign matter. Free from abnormal color and flavor.	

Remarks	
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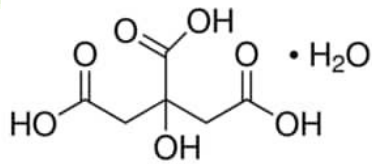
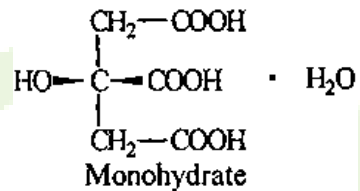
Decision	<input type="checkbox"/>	Accepted	<input type="checkbox"/>	Rejected
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Tested By

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Checked By

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Approved By

Other Related Information

Name of Material	Acid - Citric Acid - Monohydrate [E 302]
Others Name	NA
Chemical Composition	<p>Linear Formula: HOC(COOH)(CH₂COOH)₂.H₂O</p> <p>C₆H₁₀O₈</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>
Molar Mass	192.123 gm/mol [anhydrous] 210.14 gm/mol [monohydrate]
Density	1.665 gm/cm ³ [anhydrous] 1.542 gm/cm ³ [monohydrate]
Melting Point	156 C
Boiling Point	310 C
Others Information	<ul style="list-style-type: none"> - Citric acid is a natural occurring fruit acid. Produced commercially by microbial fermentation of carbohydrate substrate. - Citric acid is the most widely used organic acid. - Citric acid anhydrous occurs as colorless crystals or as white, crystalline powder with a strongly acidic taste. - It is very soluble in water. - Freely soluble in ethanol [96%]. Sparingly soluble in ether. - Citric acid anhydrous is non-toxic and it has a low reactivity. - It keeps chemical stability if stored at ambient temperatures. - Citric acid anhydrous is fully biodegradable and can be disposed with regular wastage handling method.
Function in Food Process	<ul style="list-style-type: none"> - Citric acid is a pH controlling agent in foods, beverages. - Citric acid also used in pharmaceuticals and technical applications, personal care, cleaners and detergents, feed and pet food, API and excipients. - P^H adjusting agent - Used as a preservative - Prevent metal induced oxidation of flavor Compounds. - Aroma improver.