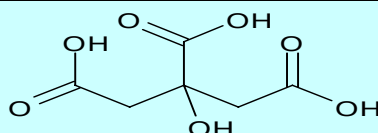




Quality Control Dept.
Product Specification

E Control	QC2\DATAD\ID\IPSI20081XPS.xls
PRODUCT CODE	20081
PRODUCT NAME	CITRIC ACID MONOHYDRATE AR, ACS Meets Analytical Specification of IP, BP, USP, Ph. Eur. (Not for parenteral preparations use) ("NOT FOR DIRECT MEDICINAL USE")
SYNONYMS	2-Hydroxy-1,2,3- propanetricarboxylic acid monohydrate.
C.I. NO.	--
CASR NO.	(5949-29-1)
ATOMIC OR MOLECULAR FORMULA	C ₆ H ₈ O ₇ .H ₂ O
ATOMIC OR MOLECULAR WEIGHT	210.14
PROPERTIES	---



PARAMETER	LIMIT
Description	Colourless / white crystals or powder.
Solubility	20% solution in water is clear & not more intensely coloured than ref.soln.(Y7)
Identification	Passes tests.
Assay (Acidimetric, Calc.on anhydrous subs.)	99.5 – 100.5%
Water (by Karl Fischer)	7.5 – 9.0%
Residue after ignition (as SO ₄)	Max. 0.02%
Max.UV Absorbance (Polycyclic aromatic Hydrocarbons)	
280 – 289 nm	0.25
290 – 299 nm	0.20
300 – 359 nm	0.13
360 – 400 nm	0.03
MAXIMUM LIMIT OF IMPURITIES	
Insoluble matter	0.005%
Chloride (Cl)	0.001%
Oxalate (C ₂ O ₄)	0.036%
Phosphate (PO ₄)	0.001%
Sulphate (SO ₄)	0.002%
Aluminium (Al)	0.0002%
Arsenic (As)	0.0001%
Barium (Ba)	Passes test.
Calcium (Ca)	0.005%
Copper (Cu)	0.0005%
Iron (Fe)	0.0003%
Lead (Pb)	0.0002%
Heavy metals (as Pb)	0.001%
Magnesium (Mg)	0.005%
Readily carbonisable Substances	Passes test.
Organic volatile impurities (by GC-MS)	Meets the requirement (BP / USP).

Note(s) : Assay (if applicable) method mentioned.

WARNING

Hazard statements: May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life.

Precautionary statements

Prevention: Wash hands thoroughly after handling. Wash thoroughly after handling.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs, seek medical advice/attention. If eye irritation persists, get medical advice/attention. Wear eye/face protection. Remove/Take off immediately all contaminated clothing Wash/Decontaminate removed clothing before reuse. IF ON SKIN: Gently wash with plenty of soap and water.

IMDG Code :

UN No. :

IATA :

Disposal: Dissolve the chemical to be disposed, in water and allow it to run to waste, diluting with large quantities of water. This chemical can be disposed off as normal industrial waste.

Hazard Pictogram(s) :



Prepared By : Name/Dept. : Officer (Q.A.) Sign. : Date : 24.07.2014	Checked By: Name/Dept.:Incharge(Q.A.) Sign. : Date : 24.07.2014	Approved By: Name/Dept. : Incharge (Tech.) Sign. : Date : 31.07.2014	Issue Date : 01.07.2002 Revision No.: 08 Revision dt. : 31.07.2014 AMEND NO. : 1654
--	--	---	--