



Material	27831.297
Material description	tri-Sodium citrate dihydrate
Grade	Ph.Eur./USP/BP crystallized
Lot	24J094129
Expires end of	2027-Feb-28
CAS Number	6132-04-3
Molecular formula	C ₆ H ₅ Na ₃ O ₇ ·2H ₂ O
Molecular mass	294,10
Last Quality Control	2024-Nov-05
Date of manufacture	2024-Feb-29

Additional information

Characteristics	Specifications	Measured values
Appearance	Conforms (see CoA/CoS)	Conforms (see CoA/CoS)
Heavy metals (as Pb)	≤ 10 ppm	2 ppm
Residual solvents	Passes test	Passes test
Residual metal catalysts (skip lot):	.	.
As (Arsenic)	≤ 1 ppm	≤ 1 ppm
Cd (Cadmium)	≤ 1 ppm	≤ 1 ppm
Co (Cobalt)	≤ 1 ppm	≤ 1 ppm
Hg (Mercury)	≤ 2 ppm	≤ 2 ppm
Ni (Nickel)	≤ 1 ppm	≤ 1 ppm
Pb (Lead)	≤ 3 ppm	≤ 3 ppm
V (Vanadium)	≤ 2 ppm	≤ 2 ppm
Conforms to Ph.Eur./USP/BP	Passes test	Passes test
Ph.Eur./BP specifications:	.	.
Assay (on anhydrous) [Ph.Eur./BP]	99.0 - 101.0 %	99.4 %
Identification A	Passes test Ph.Eur./BP	Passes test Ph.Eur./BP
Identification B	Passes test Ph.Eur./BP	Passes test Ph.Eur./BP
Appearance of solution	Passes test Ph.Eur./BP	Passes test Ph.Eur./BP
Acidity or alkalinity	Passes test Ph.Eur./BP	Passes test Ph.Eur./BP
Readily carbonisable substances	Passes test Ph.Eur./BP	Passes test Ph.Eur./BP
Cl (Chloride) [Ph.Eur./BP]	≤ 50 ppm	≤ 50 ppm
C ₂ O ₄ (Oxalate) [Ph.Eur./BP]	≤ 300 ppm	≤ 300 ppm
SO ₄ (Sulphate) [Ph.Eur./BP]	≤ 150 ppm	150 ppm
Water [Ph.Eur./BP]	11.0 - 13.0 %	11.8 %
USP specifications:	.	.
Assay (calculated on anhydrous) [USP]	99.0 - 100.5 %	99.4 %
Identification A	Passes test USP	Passes test USP
Identification B	Passes test USP	Passes test USP
Identification C	Passes test USP	Passes test USP

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Characteristics	Specifications	Measured values
Tartrate	Passes test USP	Passes test USP
Alkalinity	Passes test USP	Passes test USP
Water determination [USP]	10.0 - 13.0 %	11.8 %

Signature

We certify that this batch conforms to the specifications listed above.

This document has been produced electronically and is valid without a signature.

Jessie Pijck, Head of Laboratory - Haasrode
 VWR International bv; Geldenaaksebaan 464; BE-3001
 Leuven; Belgium

Additional information

Appearance: White or almost white, crystalline powder or white or almost white, granular crystals, slightly deliquescent in moist air.

Not for use as Active Pharmaceutical Ingredient (API)