

### Technical Data Sheet

**Chemical Name:** *Trisodium Citrate Dihydrate*

**Molecular Formula:**  $C_6H_5Na_3O_7 \cdot 2H_2O$

**CAS No.:** 6132-04-3

**Standards:** BP / USP / FCC / E331 / GB1886.25-2016

Test Description	Unit of Measure	Specifications/Min/Max
Characters	-	Colorless crystals or white crystalline powder
Identification	-	Pass Test
Color & Clarity of Solution	-	Pass Test
Acidity or Alkalinity	-	Pass Test
Light Transmittance	%	$\geq 95.0$
Assay	%	99.0–100.5
Water	%	10.0–13.0
Readily Carbonized Substances	-	Not darker than standard
Sulphate	ppm	$\leq 50$
Chloride	ppm	$\leq 10$
Oxalate	ppm	$\leq 50$
Iron	ppm	$\leq 5.0$
Calcium	ppm	$\leq 200$
Lead	ppm	$\leq 0.1$
Arsenic	ppm	$\leq 0.1$
Mercury	ppm	$\leq 0.1$
Tartrate	-	Pass Test
Heavy Metals	ppm	$\leq 5$
pH	-	7.5–9.0

Pyrogen	-	Pass Test
Insolubles in Water	-	Pass Test

## Applications

Trisodium citrate dihydrate is used as:

- **Food & Beverage Industry:** Flavoring agent, stabilizer, buffering agent, emulsifier
- **Pharmaceutical Industry:** Anticoagulant, expectorant, diuretic
- **Detergents:** Non-toxic phosphate substitute
- **Other Applications:** Brewing, photography, electroplating, injection, metal treatment

## Storage

Store in a light-proof, well-closed, dry, and cool place. Avoid storage with toxic, odorous, or non-ferrous powders.

Information is believed to be accurate but not guaranteed. Users must determine suitability and comply with laws. No warranties implied.