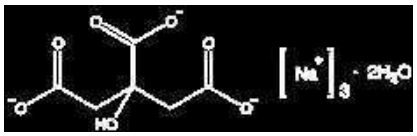
Scharlau
The wise choice

TRI-SODIUM CITRATE DIHYDRATE



- $C_6H_5Na_3O_7 \cdot 2H_2O$
- M = 294,10 g/mol
- CAS [6132-04-3]
- EINECS-No.: 200-675-3
- Solub. in water: (25 °C): 425 g/l
- Melting point: 150 °C (anhydrous substance)
- Tariff number: 2918 15 00 10

- Applications: analytical chemistry, in buffer solutions, for the analysis of: aminoacids, in food industry (E-331), emulsifier, antioxidant, preservative agent.
- Appearance: White

SO0199 tri-Sodium citrate dihydrate, extra pure, Pharmpur®, Ph Eur, BP, USP

assay USP (titr. with $HClO_4$, referred to dried sample) . . . . . 99,0 - 100,5 %
assay EP (titr. with $HClO_4$, referred to dried sample) . . . . . 99,0 - 101,0 %
identification . . . . . .passes test
appearance of solution . . . . . .clear and colourless
acidity or alkalinity . . . . . .passes test
alkalinity . . . . . .passes test
chlorides (Cl) . . . . . max. 50 ppm
oxalates (C_2O_4) . . . . . max. 300 ppm
sulfates (SO_4) . . . . . max. 150 ppm
tartrates (C_4O_6) . . . . . .passes test
substances darkened by H_2SO_4 . . . . . .passes test
water (K.F.) . . . . . 11,0 - 13,0 %
loss on drying (180 °C, 18h) . . . . . 10,0 - 13,0 %
Elemental impurities are analysed according to guideline CHMP/ICH/353369/2013.
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

ART. NO.	VOLUME	CONTAINER
SO01990500	500 g	P
SO01991000	1 kg	P
SO0199005P	5 kg	P
SO0199025P	25 kg	P

SO0200 tri-Sodium citrate dihydrate, ExpertQ®, for analysis, ACS, ISO, Reag. Ph Eur

assay (titration with $HClO_4$) . . . . . min. 99,5 %
assay (titr. with $HClO_4$, referred to dried sample) . . . . . 99,0 - 101,0 %
identity (IR-spectrum) . . . . . .passes test
appearance of solution . . . . . .clear and colourless
insoluble in water . . . . . .max. 0,005 %
pH (5 %, H_2O) . . . . . 7,5 - 9,0
acidity or alkalinity . . . . . .passes test
chlorides (Cl) . . . . . .max. 0,001 %
oxalates (C_2O_4) . . . . . max. 300 ppm
phosphates (as PO_4) . . . . . .max. 0,002 %
sulfates (SO_4) . . . . . .max. 0,004 %
total nitrogen (as N) . . . . . .max. 0,001 %
ammonia (NH_3) . . . . . .max. 0,003 %
calcium (Ca) . . . . . .max. 0,005 %
heavy metals . . . . . max. 5 ppm
iron (Fe) . . . . . max. 5 ppm
substances darkened by H_2SO_4 . . . . . .passes test
water (K.F.) . . . . . 11,0 - 13,0 %

ART. NO.	VOLUME	CONTAINER
SO02000250	250 g	P
SO02000500	500 g	P
SO02001000	1 kg	P
SO0200005P	5 kg	P
SO0200025P	25 kg	P

SO0205 tri-Sodium citrate dihydrate, molecular biology grade

assay (titration with $HClO_4$) . . . . . min. 99,5 %
identity (IR-spectrum) . . . . . .passes test
absorbance of an aqueous solution
0,1 M in a 1 cm cell at 260 nm . . . . . max. 0,01 AU
absorbance of an aqueous solution
0,1 M in a 1 cm cell at 280 nm . . . . . max. 0,01 AU
heavy metals . . . . . .max. 0,001 %
DNases, RNases, Proteases . . . . . non detected

ART. NO.	VOLUME	CONTAINER
SO02051000	1 kg	P

SODIUM CYANIDE

SO0190 Sodium cyanide, EssentQ®

- NaCN
- M = 49,01 g/mol
- CAS [143-33-9]
- EINECS-No.: 205-599-4
- Solub. in water: (20 °C): 370 g/l
- Melting point: 563 °C
- Boiling point: 1496 °C
- Vapour pressure: (50 °C) 0,1 hPa
- LD 50 (oral, rat): 6,4 mg/kg
- EC-Index-No.: 006-007-00-5
- ADR: 6.1 T5 I UN 1689
- IMDG: 6.1 I UN 1689
- IATA/ICAO: 6.1 I UN 1689
- GHS-signal word: Danger
- GHS-H sentences: H300 - H310 - H330 - H400 - H410 - EUH032
- GHS-P sentences: P260 - P284 - P320 - P361 - P405 - P501a
- Tariff number: 2837 11 00 00
- Applications: for the extraction of gold and silver from minerals, laboratory reagent, fumigant, in galvanotechnia.

assay (argentometric) . . . . . .min. 98 %
insoluble in water . . . . . .max. 0,01 %
chlorides (Cl) . . . . . .max. 0,025 %
ferrocyanide ($Fe(CN)_6$) . . . . . .max. 0,025 %
phosphates (as PO_4) . . . . . .max. 0,01 %
sulfates (SO_4) . . . . . .max. 0,025 %
sulfides (S) . . . . . .max. 0,003 %
sulfocyanides (SCN) . . . . . .max. 0,05 %
copper (Cu) . . . . . .max. 0,002 %
iron (Fe) . . . . . .max. 0,01 %
lead (Pb) . . . . . .max. 0,001 %
potassium (K) . . . . . .max. 0,2 %
zinc (Zn) . . . . . .max. 0,02 %

ART. NO.	VOLUME	CONTAINER
SO01900250	250 g	P
SO01901000	1 kg	P
SO0190005P	5 kg	P
SO0190025P	25 kg	P