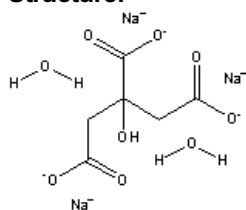


Catalog Number: 102900, 194817, 194868

Citric Acid, Trisodium Salt, Dihydrate

Structure:



Molecular Formula: $C_6H_5O_7Na_3 \cdot 2H_2O$

Molecular Weight: 294.1

CAS #: 6132-04-3

Synonym: Sodium Citrate, trisodium salt

Physical Description: White crystalline powder

Solubility: Freely soluble in water (> 100 mg/ml - clear, colorless solution). pH of a 0.1 M solution in water is approximately 7.5 to 9.0; Insoluble in alcohol.

Description: Used as a substrate for citrate lyase¹, a buffer component; an anticoagulant.^{2,3} To make a sodium citrate buffer use equimolar concentrations (typically approximately 0.05 M concentration) of citric acid, free acid and sodium citrate. Add equal volumes of each solution and titrate to the desired pH. For anticoagulation use it is typically used at a concentration of approximately 0.129 M (i.e. for 4.5 ml blood use 16.0 mg sodium citrate and 2.1 mg citric acid).

Availability:

Catalog Number	Description	Size
102900	Citric Acid, Trisodium Salt, Dihydrate	100 g 500 g 1 kg 5 kg
194817	Citric Acid, Trisodium Salt, Dihydrate, Molecular Biology Reagent	100 g 500 g 1 kg 5 kg 10 kg
194868	Sodium Citrate, Trisodium Salt, Dihydrate, ACS Grade	100 g 500 g 1 kg 5 kg

References:

1. Bergmeyer, H.U. (ed.), *Methods. Enzymat. Anal.*, **3rd Ed. 2**, 173 (1983) Chemie
2. Ramsey, D.M., et al., *J. Clin. Pathol.*, **v. 30**, 766 (1977).
3. Babb, A., et al., *Artif. Organs*, **v. 3**, 470 (1979).
4. Amils, R., et al., *Methods. Enzymol.*, **v. 59**, 449 (1979).