

Product Information Sheet

P6780

Potassium Sodium Tartrate, Tetrahydrate

Synonyms: Rochelle Salt, Seignette Salt, L(+)-Tartaric acid
potassium Sodium salt

CAS: 6381-59-5

Formula: $C_4H_4KNaO_6 \cdot 4H_2O$

Mol. Weight: 282.22

Properties

Form: Powder
Appearance: White to Off-White
Solubility: Soluble in Water
Application: Seed Testing, Molecular Biology
Storage Temp: Room Temperature
Typical Working
Concentration: 34.6g/100 mL
Other Notes: Fehling's Reagent (B)

Application Notes

A component of Fehling's solution, used to differentiate between water-soluble carbohydrate and ketone functional groups, and as a test for monosaccharides. Fehling's solution can be used to determine whether a carbonyl-containing compound is an aldehyde or a ketone.

Fehling's solution, is composed of 2 separately prepared solutions, added together in equal parts.

Fehling Soln A consists of 7 g of hydrated copper (II) sulfate (Prod# C375) dissolved in 100 mL of DI water.

Fehling Soln B is made by dissolving 34.6 g of potassium sodium tartrate and 24 g of sodium hydroxide (Prod # P672) in 100 mL of DI water. This solution is referred to as a general test for monosaccharides (Nigam, 2007) and should always be made fresh.

References

Nigam A. (2007) Lab Manual of Biochemistry. Tata McGraw-Hill Education, ISBN: 0070617678. Pg. 21-22.

Unrau AM (1964) Carbohydrates of Centrosema Seed. The Constitution of an Arabino Galactan. *Canadian Journal of Chemistry*, 42. Pp. 916-925.

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