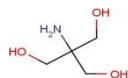




Product **Tris(hydroxymethyl)aminomethane**

CAS No. **CAS No: 77-86-1**

Molecule structure



Market **Global**

Key parameters
Appearance: white crystals powder
Purity (Titration): 99.5%min
Water: 0.5%max
[Fe3+]: 5ppm max
[SO4 2-]: 10ppm max
[Cl-]: 10ppm max
Heavy metal: 5ppm max

Packing & Delivery 25kg/drum, 9Mt/FCL
Non-hazardous material



Application

☑ Tris buffer is not only widely used as a solvent for nucleic acids and proteins, but also has many important uses. Tris was used for protein crystal growth under different pH conditions.
☑ The low ionic strength of Tris buffer can be used to form the intermediate fiber of lamin in *C. elegans*.
☑ Tris is also one of the main components of protein electrophoresis buffer.
☑ In addition, Tris is an intermediate for the preparation of surfactants, vulcanization accelerators and some drugs. Tris is also used as a titration standard.
☑ Trimethylaminomethane is widely used in acute metabolic and respiratory acidemia. It is an alkaline buffer and has a good buffer effect on metabolic acidosis and enzyme activity reaction.
☑ Tris is often used as biological buffer, and its pH value is 6.8, 7.4, 8.0, 8.8. Its structure formula, pH value changes greatly with temperature. Generally speaking, the pH value decreases by 0.03 when the temperature increases by one degree. Tris is widely used in the preparation of buffer solution in biochemistry and molecular biology experiments. For example, both TAE and TBE buffers (used for nucleic acid dissolution) commonly used in biochemical experiments need Tris. Because it contains amino groups, it can react with aldehydes.
☑ Tris is a weak base, and its PKA is 8.1 at room temperature (25 °C). According to the buffer theory, the effective buffer range of Tris buffer is between 7.0 and 9.2. The pH value of Tris base aqueous solution is about 10.5. Generally, hydrochloric acid is added to adjust the pH value to the desired value to obtain the buffer solution with this pH value. At the same time, we should pay attention to the effect of temperature on pKa of Tris. Because Tris buffer is a weak alkaline solution, DNA will be deprotonated in such a solution to improve its solubility. People often add EDTA into Tris hydrochloric acid buffer to make "TAE buffer", which is used for DNA stabilization and storage. If the acid solution of adjusting pH value is replaced by acetic acid, the "TBE buffer" (Tris / acetate / EDTA) is obtained, and the "TBE buffer" (Tris / borate / EDTA) is obtained by replacing it with boric acid. These two buffers are usually used in nucleic acid electrophoresis experiments.

Our advantage

☑ Product approved by leading pharmaceutical companies;
☑ Annual Audit conducted by multinationals;
☑ 1000t/a capacity plant;
☑ We have complete quality management system, not limited to sampling, method of analysis, sample retainment, Standard operation process;
☑ Freeman ensures the consistency of quality, the strict process of management of changes is followed, including process and equipment, raw material supplies, packing;
☑ The sample could arrive in your hands within 20 days for international customers;
☑ The minimum order quantity is based on one package;
☑ We will feedback to your enquires within 24 hours. Dedicated technical team will follow up and ready to give solutions if you have any request;

Welcome contact for more details!