

Tris(hydroxymethyl)methyl aminomethane THAM

Product Name:Tris(hydroxymethyl)methyl aminomethane THAM

Another name:Trisbase;Amino-2-(hydroxymethyl)-1,3-propanediol;

2-THAM;Trometamol

CAS No:77-86-1

Molecular Formula:C₄H₁₁NO₃

Linear molecular formula:NH₂C(CH₂OH)₃

Molecular weight:121.14

Purity: ≥99.5%

Appearance:White crystalline particles

Insolubles: Qualified

Loss on drying (110°C): ≤0.2%

Chloride (Cl): <0.005%

Sulfate (SO₄): <0.005%

Iron (Fe): <0.0005%

Application:

Tris buffer is not only widely used as a solvent for nucleic acids and proteins, but also has many important uses. Tris is used for protein crystal growth under different pH conditions. The low ionic strength characteristics of the Tris buffer can be used for the formation of intermediate fibers of the nematode (*C. elegans*) lamin. Tris is also one of the main components of the protein electrophoresis buffer. In addition, Tris is an intermediate in the preparation of surfactants, vulcanization accelerators, and some

drugs. Tris is also used as a titration standard.

Photo show:



分析报告

CERTIFICATE OF ANALYSIS

产品名称 Product: 三羟甲基氨基甲烷(Tris)

送样部门 Dept of sample: 仓库 warehouse CAS No.: 77-86-1

取样日期 Date of sample: 2018/4/08 批号 Batch No: 20180408-1

分析日期 Date of analysis: 2018/4/08 批量 Batch quantity: 2200KG

项目 Items	标准 Standards	结果 Results
外观 Appearance	白色结晶粉末 White crystalline powder	符合 Conforms
含量 Assay,%	≥99.5	99.9
熔点 MP, °C	168.0-171.0	169.7-170.8
溶解性 (40%水溶液) Solubility (40% aq)	无色、澄清 Clear, colorless solution	符合 Conforms
重金属 Heavy Metals, ppm	≤5	符合 Conforms
水份 Water Content, %	≤0.2	0.04
pH 值 (5%水溶液) pH value(5% aq.)	10.0-11.5	10.69
铁离子[Fe ³⁺] Iron ion,ppm	≤1	符合 Conforms
硫酸根[SO ₄ ²⁻] Sulfate,ppm	≤10	符合 Conforms
氯离子[Cl ⁻] Chloride, ppm	≤3	符合 Conforms
紫外吸光度/280nm (40%水溶液) Ultraviolet absorbance (40% aq.)	≤0.07	0.023
紫外吸光度/400nm (40%水溶液) Ultraviolet absorbance (40% aq.)	≤0.02	0.001
红外光谱 Infrared spectrum	与标准图谱一致 Conforms to reference	符合 Conforms
结论 Conclusion	合格 Standards compliant	

复核员 Checker: 曹海敏

检验员 Operator: 滕红兵

生产日期 Manufacturer date: 2018/4/08

复检日期 Expiry date: 2019/4/07