

Tris (Base) Ultrapure

About this item

CAS Number: 77-86-1

Formula: $\text{NH}_2\text{C}(\text{CH}_2\text{OH})_3$

MDL Number: MFCD00004679

Boiling Pt: 357 °C (1013 hPa)

Melting Pt: 169...172 °C

Molecular Weight: 121.14 g/mol

Merck Index: 13,09842

Density: 1.328 g/cm³ (20 °C)

: Management of Change (MOC)
category = NI

Storage Temperature: Ambient

EINECS: 201-064-4

Specification Test Results

Assay ($\text{C}_4\text{H}_{11}\text{NO}_3$) (dried basis):	≥99.9 %
Assay ($\text{C}_4\text{H}_{11}\text{NO}_3$):	99.0 - 101.0 %
Appearance (White crystals):	Passes Test
Absorbance of a 1M Solution - 260 nm:	≤0.06
Absorbance of a 1M Solution - 280 nm:	≤0.06
Absorbance of a 1M Solution - 400 nm:	≤0.01
RNase Activity (None Detected):	Passes Test
DNase Activity (None Detected):	Passes Test
Protease Activity (None Detected):	Passes Test
pH of 0.1M Solution at 25°C:	10.0 - 11.0
Insoluble Matter:	≤0.005 %
Water (H_2O)(by Karl Fischer titrn):	≤0.3 %
Trace Impurities - Arsenic (As):	≤1 ppm
Trace Impurities - Calcium (Ca):	≤1 ppm

Trace Impurities - Copper (Cu):	≤1 ppm
Trace Impurities - Iron (Fe):	≤1 ppm
Trace Impurities - Lead (Pb):	≤1 ppm
Trace Impurities - Magnesium (Mg):	≤1.000 ppm
Trace Impurities - Manganese (Mn):	≤1 ppm
Identification A:	Passes Test
Identification B:	Passes Test
Identification C:	Passes Test
Description:	Passes Test
pH (1 in 20):	10.0 - 11.5
Loss on Drying:	≤1.0 %
Residue after Ignition:	≤0.10 %
Heavy Metals (as Pb):	≤0.001 %
Melting Range(Lower):	168 - 172 °C
Melting Range(Upper):	168 - 172 °C