

Specification

Technical Data Sheet

CAS 77-86-1	STORAGE Ambient	MOLECULAR WEIGHT 121.14
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PRODUCT

TRIS (Tris(hydroxymethyl)aminomethane) $\geq 99.9\%$

Product number	90036521
CAS number	77-86-1
Molecular formula	NH ₂ C(CH ₂ OH) ₃
Molecular weight	121.14 g/mol

PARAMETER	SPECIFICATION
Appearance	White crystalline powder
Assay/Purity	99.9 - 101.1 %
Conclusion	Conforms to standard
Loss on Drying	$\leq 0.1\%$
Melting Point	168 - 172°C
pH	10.0 to 11.5 (5% aq.)
Cadmium (Cd)	$\leq 1\text{ppm}$
Iron (Fe)	$\leq 1\text{ppm}$
Residue on Ignition	$\leq 0.1\%$
Solubility (40% aqueous)	Clear, colourless solution
UV Absorbance	A (250nm, 1M, 1cm) ≤ 0.25 Abs unit. A (290nm, 40 %, 1cm) ≤ 0.05 Abs unit.
Arsenic (As)	$\leq 1\text{ppm}$
Barium (Ba)	$\leq 1\text{ppm}$
Calcium (Ca)	$\leq 1\text{ppm}$
Copper (Cu)	$\leq 1\text{ppm}$

PARAMETER	SPECIFICATION
Identification (IR)	Conforms to Reference
Lead (Pb)	$\leq 1\text{ppm}$
Magnesium (Mg)	$\leq 1\text{ppm}$
Manganese (Mn)	$\leq 1\text{ppm}$
pKa 20°C	8.30 ± 0.15
Water (KF)	$\leq 1.0 \%$
Zinc (Zn)	$\leq 1\text{ppm}$

SPECIFICATION STATEMENT	The values stated above represent the standard specification for this product, issued under Molekula Ltd 's quality management system. Batch-specific results are provided on the Certificate of Analysis.
STORAGE	Store as indicated on the product label, away from light, moisture and incompatible materials.

Molekula Ltd would like to thank you for your support of our products and service.
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