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DATASHEET

Tris base

Product overview

Name	Tris base
Cat No	HB5504
Biological description	Widely used component of buffer solutions in molecular biology such as TBS (Tris-buffered saline), TAE (Tris acetate / EDTA) and TBE (Tris borate / EDTA) buffers. Due to having a pKa of ≈ 8.1 at 25°C it effectively buffers solutions from pH 7 to 9, a range suitable for the majority of biological processes. Highly water soluble.
Alternative names	Tris, tromethamine, THAM, Trometamol, Tris(hydroxymethyl)aminomethane
Biological action	Buffer
Purity	>99%
Description	Widely used buffer component in molecular biology

Biological Data

Application notes	Common buffer recipes: • TBS: 20mM Tris, 150mM NaCl, pH7.4 • TAE: 40mM Tris, 20mM acetic acid, 1mM EDTA, pH8.5 • TBE: 89mM Tris, 89mM boric acid, 2mM EDTA, pH8.3
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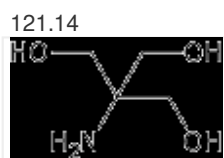
Solubility & Handling

Storage instructions	RT
Solubility overview	Soluble in dH ₂ O to $\approx 50\text{g}/100\text{ml}$.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	2-amino-2-(hydroxymethyl)propane-1,3-diol
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Molecular Weight
Chemical structure



Molecular Formula

Chemical name	2-amino-2-(hydroxymethyl)propane-1,3-diol
	$C_4H_{11}NO_3$
CAS Number	77-86-1
PubChem identifier	6503
SMILES	<chem>C(C(CO)CO)NO</chem>
InChi	InChI=1S/C4H11NO3/c5-4(1-6,2-7)3-8/h6-8H,1-3,5H2
InChiKey	LENZDBCJOHFCAS-UHFFFAOYSA-N
MDL number	MFCD00004679
Appearance	White crystalline solid

References

Tris-base buffer: a promising new inhibitor for cancer progression and metastasis

Ibrahim-Hashim A, Abrahams D, Enriquez-Navas PM, Luddy K, Gatenby RA, Gillies RJ. (2017) Cancer Med
PubMedID [28556628](#)

Tris-HCl: a standard buffer for use in the physiologic pH range.

Durst RA, Staples BR (1972) Clin Chem
PubMedID [5020814](#)
