

HEPES

ENZYME FREE

CAS #: 7365-45-9

Formula: $C_8H_{18}N_2O_4S$

F.W.: 238.30 g/mol

HEPE-5201

BIO ULTRA GRADE

ANALYSIS		SPECIFICATIONS
Absorbance (0.1M)	260nm	≤ 0.0500 a.u.
	280nm	≤ 0.0500 a.u.
Appearance and Color		White Crystals
Assay, Dried Basis		$\geq 99.0\%$
Enzymes	DNase	None Detected
	RNase	None Detected
	Protease	None Detected
Loss on Drying		$\leq 1.0\%$
pH (5%)		5.0 – 6.5
pKa		Report from MFG CoA
Residue on Ignition		$\leq 0.2\%$
Trace Metals	Arsenic (As)	≤ 0.5 ppm
	Iron (Fe)	≤ 5 ppm
	Lead (Pb)	≤ 5 ppm

General Product Overview

HEPES is a zwitterionic buffer used to maintain pH of media used in cell cultures. It is one of Good's buffers that has a pKa value similar to its pH value, making it an ideal buffer for pH maintenance. A known limitation is its interference with the Folin protein assay. This buffer can form radicals, so it is not suitable for redox studies. HEPES is a Good's buffer because it has low UV absorptivity, minimal reactivity, stable pH and is soluble in water.

Industry Application

Suitable for use in biological and biotech chemical process applications from R&D through scale production.

Key Product Features

- Appears as white crystals
- Contains no known major food allergens (as defined by FDA and WHO)
- The final product and its raw materials are not derived from nor come into contact with animal parts, animal products, and/or animal byproducts or derivatives.
- Is not subject to genetic modification
- Synonyms: N-(2-Hydroxyethyl) Piperazine-N'-2-Ethanesulfonic Acid; 4-(2-Hydroxyethyl) Piperazine-1-Ethanesulfonic Acid

Storage and Shipping Conditions

Refer to SDS.

Standard Shelf-Life Policy

Please inquire for information regarding shelf life.

Package Sizes

1kg, 5kg, 10kg, 25kg, 50kg

[Click here to view SDS, CoAs and other supporting regulatory documents on our website.](#)

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