



Material	44148BC
Material description	HEPES (4-(2-Hydroxyethyl)piperazin-1-ylethanesulphonic acid)
Grade	for biochemistry
CAS Number	7365-45-9
Molecular formula	C ₈ H ₁₈ N ₂ O ₄ S
Molecular mass	238.31

Characteristics	Specifications
Assay	Min. 99.5 %
Appearance	White crystalline powder
Appearance of solution (1 mol/l)	Clear colourless liquid
IR Spectrum	Passes test
pH (1 %)	4.7 --> 5.3
Ignition residue	Max. 0.1 %
Water	Max. 0.5 %
Cl (Chloride)	Max. 50 ppm
PO ₄ (Phosphate)	Max. 10 ppm
SO ₄ (Sulphate)	Max. 100 ppm
Al (Aluminium)	Max. 5 ppm
Cu (Copper)	Max. 5 ppm
Fe (Iron)	Max. 5 ppm
Na (Sodium)	Max. 0.1 %
Pb (Lead)	Max. 5 ppm
Absorbance (260 nm) (1 mol/l)	Max. 0.05
Absorbance (280 nm) (1 mol/l)	Max. 0.04

Signature

We certify that this batch conforms to the specifications listed above.

This document has been produced electronically and is valid without a signature.

Ellen Somers, Head of Laboratory - Haasrode
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