



## Product Specification

### HEPES (BUFFER)

SUITABLE FOR TISSUE CULTURE WORK pKa - 7.5

PRODUCT CODE	044147
SYNONYMS	n-(2-Hydroxyethyl) piperazine-n'-(2-ethanesulphonic acid)
C.I. NO.	--
CASR NO.	(7365-45-9)
ATOMIC OR MOLECULAR FORMULA	C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S
ATOMIC OR MOLECULAR WEIGHT	238.30
PROPERTIES	---



PARAMETER	LIMIT
Description	White crystalline powder.
Solubility	10% solution in water is clear and colourless.
Minimum Assay (potentiometric)	99.0%

#### MAXIMUM LIMIT OF IMPURITIES

Absorbance per 10 mm of 10% aq. solutions at 250 nm 0.1 max. with smooth curve in the range 230 - 350 nm	0.1
Loss on drying (at 110°C)	0.5%
Sulphated ash	0.1%
Chloride (Cl)	0.01%
Phosphate (PO <sub>4</sub> )	0.001%
Sulphate (SO <sub>4</sub> )	0.01%
Iron (Fe)	0.0005%
Lead (Pb)	0.001%
Biological buffer pKa at 20°C	7.55

**Note(s) : Assay (if applicable) method mentioned.**

#### WARNING

**Hazard statements:** Not hazardous. No hazards.

**Precautionary statements**

**Prevention:** ----

**Response:** ----

**Disposal:** ----

Hazard Pictogram(s) :

IMDG Code :  
UN No. :  
IATA :