

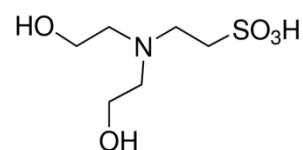


# Product Specification

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## BES BUFFER

<b>PRODUCT CODE</b>	<b>023905</b>
<b>SYNONYMS</b>	<b>(N,N-Bis(2-hydroxyethyl)-2-aminoethanesulfonic acid ),</b>
<b>C.I. NO.</b>	--
<b>CASR NO.</b>	<b>(10191-18-1)</b>
<b>ATOMIC OR MOLECULAR FORMULA</b>	<b>C<sub>6</sub>H<sub>15</sub>NO<sub>5</sub>S</b>
<b>ATOMIC OR MOLECULAR WEIGHT</b>	<b>213.25</b>
<b>PROPERTIES</b>	---



<b>PARAMETER</b>	<b>LIMIT</b>
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Description	White crystalline powder.
Solubility	10% solution in water is clear & colourless
Minimum assay (Acidimetry)	99.0%
pH of(1% solution in water)	4.1 - 4.5

### MAXIMUM LIMIT OF IMPURITIES

UV Absorption (c=1 M in water at 260 nm)	0.095
Loss on drying(105°C)	1.0%
Aluminium (Al)	0.0005%
Antimony (Sb)	0.0005%
Arsenic (As)	0.0003%
Barium (Ba)	0.0005%
Bismuth (Bi)	0.0005%
Cadmium (Cd)	0.0005%
Calcium (Ca)	0.003%
Chromium (Cr)	0.0005%
Cobalt (Co)	0.0005%
Copper (Cu)	0.0005%
Iron (Fe)	0.0005%
Lithium (Li)	0.0005%
Magnesium (Mg)	0.0005%
Manganese (Mn)	0.0005%
Molybdenum (Mo)	0.0005%



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Sodium (Na)	0.0025%
Nickel (Ni)	0.0005%
Lead (Pb)	0.0005%
Zinc (Zn)	0.0005%

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

<b>WARNING</b> <b>Hazard statements:</b> Not hazardous. No hazards. <b>Precautionary statements</b> <b>Prevention:</b> ----- <b>Response:</b> ----- <b>Disposal:</b> -----	<b>IMDG Code :</b> -- <b>UN No. :</b> -- <b>IATA :</b> --
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**Hazard Pictogram(s) :**-----

Replace Date 1-June-2023