

**Product:** HEPES Hemisodium, Ultra Biopure  
**Catalog Number:** H1125

**Formula:**  $C_8H_{17.5}N_2O_4S.Na_{0.5}$   
**Formula Weight:** 249.30  
**CAS Number:** 103404-87-1

## SPECIFICATIONS

Test	Specification
Appearance .....	White powder .....
Assay (by titration, on dried basis) .....	NLT 99.0% .....
Solubility (1% solution in water).....	Clear, complete, colorless.....
Identification (by IR).....	Conforms to structure.....
Loss on Drying (3 hours @ 105°C) .....	NMT 3.0% .....
Water (by Karl Fisher).....	NMT 2.0% .....
pH (1% solution in water @ 20°C) .....	6.8 – 8.2 .....
pKa (@25.....	7.4 – 7.7 .....
UV Absorption (0.1M @ 290nm) .....	NMT 0.05 .....
UV Absorption (0.1M @ 280nm) .....	NMT 0.05 .....
UV Absorption (0.1M @ 260nm) .....	NMT 0.05 .....
Insoluble Matter .....	NMT 0.1% .....
Heavy Metals (Lead).....	NMT 5ppm .....
Iron (Fe) .....	NMT 5ppm .....
Endotoxin (0.2% solution in H <sub>2</sub> O) .....	NMT 0.1 EU/mL .....
Bioburden .....	NMT 100 CFU/g .....

### Additional Information

Storage Conditions ..... 15°C to 30°C  
Material is of non-animal, non-human origin