



## PIPES Buffer (Lot 91101c)

**B-PIPES250**

**01/19**

<b>IUPAC Name</b>	2-[4-(2-sulfoethyl)piperazin-1-yl]ethanesulfonic acid
<b>CAS Number</b>	5625-37-6
<b>Molecular formula</b>	$C_8H_{18}N_2O_6S_2$
<b>Molecular weight</b>	302.37
<b>Assay</b>	≥ 99%
<b>pKa (25°C)</b>	6.8
<b>Useful pH range</b>	6.1 – 7.5

**Storage**

Store in cool place.  
Keep container tightly closed in a dry and well-ventilated place.

**Physical properties**

Appearance  
Solubility in water (1M NaOH,  
0.5M @ 20°C)  
Melting point (°C)  
Loss on drying

**Specification**

Free flowing white powder  
Clear colourless solution  
> 300°C  
≤ 1.0%

**Impurities**

Heavy metals ≤ 5ppm  
Insoluble material ≤ 0.005%  
Residue after ignition ≤ 0.3%