



PIPES Buffer

B-PIPES250

09/09

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

 $> 300^\circ\text{C}$
 $\leq 1.0\%$

Impurities

Heavy metals $\leq 5\text{ppm}$
Insoluble material $\leq 0.005\%$
Residue after ignition $\leq 0.3\%$