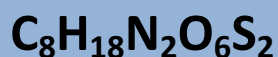




## Product Specification

### PIPERAZINE-1,4-BIS (2-ETHANESULPHONIC ACID)

PRODUCT CODE	044120
SYNONYMS	(PIPES BUFFER)
C.I. NO.	--
CASR NO.	(5625-37-6)
ATOMIC OR MOLECULAR FORMULA	$C_8H_{18}N_2O_6S_2$
ATOMIC OR MOLECULAR WEIGHT	302.37
PROPERTIES	--



PARAMETER	LIMIT
Description	A white powder.
Minimum Assay (Acidimetric)	98.5%
Absorbance per 10 mm of 10% soln. in 10% NaOH at 250 nm	0.2 with smooth curve in the range of 230-350 nm.

#### MAXIMUM LIMIT OF IMPURITIES

Loss on drying (at 110°)	0.5%
Sulphated Ash	0.5%
Sulphate (SO <sub>4</sub> )	0.01%
Iron (Fe)	0.0005%
Lead (Pb)	0.001%
Biological Buffer Pka at 20°C	6.8

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

#### DANGER

**Hazard statements :** May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

#### Precautionary statements

**Prevention :** In case of inadequate ventilation wear respiratory protection. Avoid breathing dust/fume/gas/mist/vapours/spray.

**Response :** If experiencing respiratory symptoms call a POISON CENTER or doctor/physician. IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

**Disposal:** The chemical should be mixed combustible solvent and burnt in a chemical incinerator equipped with burner and scrubber.

**Hazard Pictogram(s) :**



Aspiration hazard

IMDG Code :--  
UN No. :--  
IATA :--