



## Certificate of Analysis.

### Piperazine GC reference standard, Anstan®.

Product code:	<b>BS16125.</b>
Description:	<b>Piperazine GC reference standard, Anstan®.</b>
Synonym:	<b>1,4-Diazacyclohexane.</b>
Pack:	<b>100 gm.</b>
CAS NO.:	<b>110-85-0.</b>
Mol. Weight:	<b>86.14 g/mol.</b>
Mol. Formula:	<b>C<sub>4</sub>H<sub>10</sub>N<sub>2</sub>.</b>
MDL Number:	<b>MFCD00005953.</b>
Melting point:	<b>112 °C.</b>
Boiling Point:	<b>146 °C.</b>
Density:	<b>1.1 g/cm<sup>3</sup>.</b>
Solubility:	<b>Soluble in water.</b>
Storage:	<b>Store at ambient temperature.</b>
Batch No:	<b>Sample.</b>
Manufacture Date:	<b>Lot specific.</b>
Expiry Date:	<b>5 years.</b>

Test	Specification	Measured Values
Appearance:	White powder to lump.	<b>Lot specific.</b>
Identification by NMR:	Confirms to the structure.	<b>Lot specific.</b>
Identification by MASS:	Confirms to the structure.	<b>Lot specific.</b>
Identification by IR:	Confirms to the structure.	<b>Lot specific.</b>
Purity by GC:	≥99%	<b>Lot specific.</b>

Please Note: - This material is only for laboratory purpose and not for human consumption. This is a computer generated COA, no stamp or signature is required.

