



## CAPS Buffer

**B-CAPS200**

09/09

<b>IUPAC Name</b>	3-(cyclohexylamino)propane-1-sulfonic acid
<b>CAS Number</b>	1135-40-6
<b>Molecular formula</b>	$C_6H_{11}NH(CH_2)_3SO_3H$
<b>Molecular weight</b>	221.32
<b>Assay</b>	$\geq 99\%$
<b>pKa (25°C)</b>	10.4
<b>Useful pH range</b>	9.7 – 11.1

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

### Physical properties

Appearance  
Solubility in water (0.5M @ 20°C)  
Water (%)  
Melting point (°C)

### Specification

White crystalline solid  
Clear colourless solution  
 $\leq 0.5\%$   
 $> 300^\circ C$

### Impurities

Heavy metals  $\leq 5\text{ppm}$   
 $A_{260}$  0.050  
 $A_{280}$  0.040  
 $A_{290}$  0.029