



---

## **Product Information**

### **CAPS, free acid**

**Product Name: CAPS, free acid**

**Product Code: CB0268**

CAS #: 1135-40-6

**SYNONYM:** 3-(cyclohexylamino)-1-propanesulfonic acid

#### **Product Description**

Appearance: white powder

Molecular formula: C<sub>9</sub>H<sub>19</sub>NO<sub>3</sub>S

Molecular weight: 221.3

pKa = 10.4; Effective buffering range 9.7 to 11.1

$\Delta pK/\Delta T = - 0.032$

#### **Storage/Stability**

CAPS is very soluble in water.

#### **General Remarks:**

Although CAPS was not one of the original "Good" buffers, it has an analogous structure. Its optimum pH for buffering is pH 10.4, which makes it inappropriate for many physiological buffer applications. However, it was developed for the same reasons as the other propanesulfonic acids: high solubility in water, minimal reactivity with enzymes or proteins, minimal salt effects.