



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: C₉H₁₉NO₃S

Molecular weight: 221.3

pK_a = 10.4; Effective buffering range 9.7 to 11.1

ΔpK/ΔT = - 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.