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**Product Data Sheet**

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Product Name: TES sodium

Cat. No.: GC67461

**Chemical Properties**

Cas. No. 70331-82-7

Formula  $C_6H_{14}NNaO_6S$ 

M.Wt 251.23

Solubility  $H_2O$  : 250 mg/mL (995.10 mM; Need ultrasonic); DMSO :  
83.33 mg/mL (331.69 mM; Need ultrasonic)Store  
Storage at -  
20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**TES sodium is a **buffering agent** ( $pK_a=7.550$  at 25°C). TES sodium is one of the Good's buffers, the buffer capacity ranging pH 6.8-8.2<sup>[1][2]</sup>.

[1]. N E Good, et al. Hydrogen ion buffers for biological research. Biochemistry. 1966 Feb;5(2):467-77.

[2]. A Itagaki, et al. Tes and HEPES buffers in mammalian cell cultures and viral studies: problem of carbon dioxide requirement. Exp Cell Res. 1974 Feb;83(2):351-61.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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