

# $\beta$ -mercaptoethanol

## (Molecular Biology Grade)

### Ordering info

TBR0107,  $\beta$ -Mercaptoethanol  $\geq 99\%$ , 25 mL

TBR0108, 50 mM  $\beta$ -Mercaptoethanol in PBS, 20 mL

TBR0109, 50 mM  $\beta$ -Mercaptoethanol in PBS, 100 mL

### Description

**$\beta$ -Mercaptoethanol** (BME) is a potent reducing agent commonly used in biochemistry and molecular biology applications to reduce disulfide bonds in proteins and denatured protein samples. It has a strong sulfhydryl group that can react with the disulfide bonds in proteins, resulting in the formation of reduced sulfhydryl groups (-SH). This reaction can cause protein denaturation or unfolding, which makes the proteins more accessible for analysis or manipulation.

CAS: 60-24-2

Formula:  $C_2H_6OS$

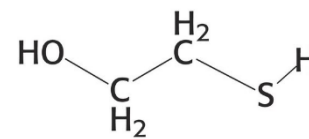
MW: 78.1 g/mol

### Features

- Toxic
- Purity  $\geq 99\%$
- Soluble in water (500 g/L), alcohol, ether, benzene, and other organic solvents
- Density 1.11 g/mL at 25° C

### Applications

- Protein Electrophoresis
- Break disulfide bonds
- Reduction of enzymatic activity in cell lysates
- Disruption of protein-protein interactions
- Aminoacid detection



### Storage

Store at room temperature in a cool, dry place, away from heat and direct sunlight.

