



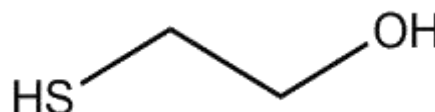
## Product Information Sheet

### M649 β-Mercaptoethanol

Synonyms: 2-mercaptoethanol, 2-Me, β-Me, 2-thioethanol, 2-Hydroxyethyl-mercaptan  
CAS: 60-24-2  
Formula: C<sub>2</sub>H<sub>6</sub>SO  
MW: 78.13 g/mol

#### Properties:

Form: Liquid  
Appearance: Clear, Colorless  
Application: Molecular Biology  
Solubility: Miscible with Water  
Storage Temp: Room Temperature  
Typical Working Concentration: Varies by application. Concentration should be determined by end user.



#### Application Notes:

This product is often supplemented to plant DNA extraction buffers to limit the oxidation of polyphenols in lysed plant tissue, which when oxidized can interact with DNA (Peterson et al. 1997). This product also reduces disulfide bonds in proteins/peptides.

#### References:

Peterson DG, Boehm K.S, and SM Stack (1997) *Plant Molecular Biology Reporter* 15(2):148-153.  
Merck 13 5894.