

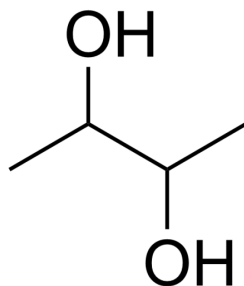
## 2,3-Butanediol

Cat. No.: HY-128387  
CAS No.: 513-85-9  
Batch No.: 254031  
Chemical Name: 2,3-Butanediol

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: C<sub>4</sub>H<sub>10</sub>O<sub>2</sub>  
Molecular Weight: 90.12  
Storage: Pure form      -20°C    3 years  
                                  4°C      2 years  
                                  In solvent    -80°C    6 months  
  -20°C    1 month

Chemical Structure:



### ANALYTICAL DATA

Appearance: Colorless to light yellow (Liquid)  
<sup>1</sup>H NMR Spectrum: Consistent with structure  
Purity (GC): 99.87%  
Water(KF): 0.28%  
OR[α]<sub>D</sub>(C=0.51 g/100ml CHCl<sub>3</sub>): -2.0°  
Conclusion: The product has been tested and complies with the given specifications.

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

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