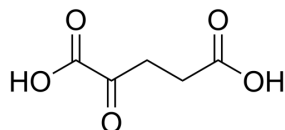


## Certificate of Analysis

**Product Name:** 2-Ketoglutaric acid  
**Cat. No.:** CS-W014352  
**CAS No.:** 328-50-7  
**Batch No.:** 44951  
**Chemical Name:** Pentanedioic acid,2-oxo-

### PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Formula:** C<sub>5</sub>H<sub>6</sub>O<sub>5</sub>  
**Molecular Weight:** 146.10  
**Storage:** Storage temp. 2-8°C  
**Chemical Structure:**



### ANALYTICAL DATA

**Appearance:** Off-white to light yellow (Solid)  
**<sup>1</sup>H NMR Spectrum:** Consistent with structure  
**Purity (NMR):** ≥95.0%  
**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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