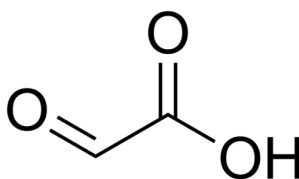


## Certificate of Analysis

### Compound Information

<b>Product Name:</b>	Glyoxalic acid
<b>Cat. No.:</b>	1065481
<b>CAS No.:</b>	298-12-4
<b>Molecular Formula:</b>	C <sub>2</sub> H <sub>2</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	74.04
<b>Chemical Structure:</b>	



### Batch Information

<b>Batch No.:</b>	Lf12c1512
<b>Storage:</b>	Solution, -20°C, 2 years
<b>Test Date:</b>	2022-12-20
<b>Retest Date:</b>	2024-12-19
<b>Origin:</b>	Shanghai, China

### QC Summary

<b>Appearance:</b>	Colorless to light yellow (Liquid)
<b><sup>1</sup>H NMR Spectrum:</b>	Consistent with structure
<b>Purity:</b>	50% in water
<b>Chloride:</b>	30 PPM
<b>Glyoxal:</b>	0.66%
<b>Nitric Acid:</b>	0.12%
<b>Oxalic Acid:</b>	0.82%
<b>Glyoxylic Acid:</b>	50.30%
<b>Conclusion:</b>	The product has been tested and complies with the given specifications.

Caution: Research use only and are not intended for human use.

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