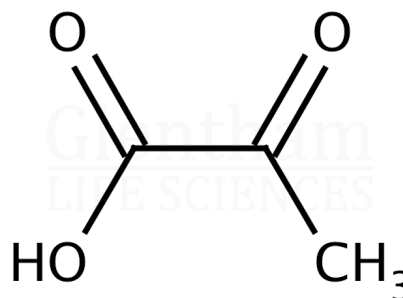


## Certificate of Analysis

|                |              |
|----------------|--------------|
| Product Name   | Pyruvic acid |
| Glenthams Code | GK4217       |
| CAS Number     | 127-17-3     |
| EINECS         | 204-824-3    |
| MDL-Nummer     | MFCD00002585 |
| PubChem SID    | 310279504    |
| Batch Number   | 164BYF       |

|                   |                                              |
|-------------------|----------------------------------------------|
| Molecular Weight  | 88.06                                        |
| Molecular Formula | C <sub>3</sub> H <sub>4</sub> O <sub>3</sub> |
| Storage Temp.     | +4°C                                         |



| Property                | Specification                                      | Batch 164BYF               |
|-------------------------|----------------------------------------------------|----------------------------|
| Physical Description    | Clear, colourless to light-yellow or yellow liquid | Clear, light-yellow liquid |
| Refractive Index (20°C) | 1.4250 - 1.4310                                    | 1.4302                     |
| Assay (Titration)       | 98.0 - 102.0 %                                     | 99.1%                      |

|                       |            |
|-----------------------|------------|
| Specification Version | v1.0       |
| Manufacture Date      | 2023-06-07 |
| Re-Test Date          | 2031-09-13 |

Glenthams Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glenthams.com](http://www.glenthams.com) or contact us using the details above for the current version of this document.

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