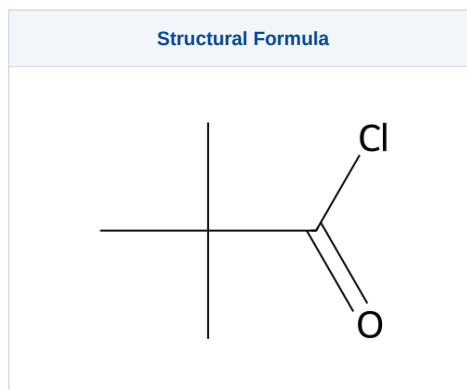


## CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd., manufacturer and supplier of quality chemicals.

|                   |                                   |
|-------------------|-----------------------------------|
| Product Name      | Pivaloyl Chloride                 |
| C.A.S. Number     | 3282-30-2                         |
| Molecular Formula | C <sub>5</sub> H <sub>9</sub> ClO |
| Molecular Weight  | 120.58                            |
| Grade / Standard  | ≥98%                              |
| Physical Form     | Colorless to pale yellow liquid   |
| Product Category  | Pharmaceutical Intermediates      |
| Country of Origin | India                             |



## ANALYTICAL RESULTS

| S. No. | Test Parameter                   | Specification                                     | Result   | Method                    |
|--------|----------------------------------|---------------------------------------------------|----------|---------------------------|
| 1      | Description                      | Colorless to pale yellow liquid                   | Complies | Visual                    |
| 2      | Identification                   | Conforms to the structure of the substance        | Complies | FTIR / Chemical test      |
| 3      | Assay                            | Not less than 98.0 % w/w                          | 98.37    | Titrimetry / Instrumental |
| 4      | Clarity & Colour of Solution     | Clear; not more intensely coloured than reference | Complies | Visual (Monograph)        |
| 5      | pH (1 % w/v aqueous solution)    | As per monograph                                  | 6.3      | Potentiometry             |
| 6      | Water Content (Karl Fischer)     | Not more than 0.5 % w/w                           | 0.29     | Karl Fischer titration    |
| 7      | Melting Range / Point            | As per monograph                                  | Complies | Capillary method          |
| 8      | Particle Size (d <sub>90</sub> ) | As per specification                              | 175 µm   | Laser diffraction         |
| 9      | Structure                        | Conforms to reference structure                   | Complies | FTIR / NMR                |

### Remarks

Material supplied against this specification is analysed on every production lot and **conforms** to the limits stated above in all tested parameters. Results shown are the typical values obtained for this grade.

Retained samples are held against every export consignment. Store in tightly closed original packing, in a cool, dry, well-ventilated place away from incompatible materials and direct sunlight.

### Checked and Approved by

**Prem Panchal**  
Quality Assurance  
Scapex Exports Pvt. Ltd.

This document sets out the standard specification for the product named above and applies to all consignments of this grade. It is issued by Scapex Exports Pvt. Ltd. as manufacturer and supplier. Refer to the Material Safety Data Sheet (MSDS) before handling.