

# Specification

Technical Data Sheet

|                         |                           |                                   |
|-------------------------|---------------------------|-----------------------------------|
| CAS<br><b>7778-77-0</b> | STORAGE<br><b>Ambient</b> | MOLECULAR WEIGHT<br><b>136.08</b> |
|-------------------------|---------------------------|-----------------------------------|

## PRODUCT

### Potassium dihydrogen phosphate (Monobasic) - Pharma grade

|                   |                                 |
|-------------------|---------------------------------|
| Product number    | 90033259                        |
| CAS number        | 7778-77-0                       |
| Molecular formula | KH <sub>2</sub> PO <sub>4</sub> |
| Molecular weight  | 136.08 g/mol                    |

| PARAMETER                 | SPECIFICATION                                                                                         |
|---------------------------|-------------------------------------------------------------------------------------------------------|
| Appearance                | White crystalline powder                                                                              |
| Identification            | Test A (NF):Pass. Test B (NF): Pass. Test A (EP/BP): Pass. Test B (EP/BP):Pass. Test C (EP/BP): Pass. |
| IR                        | Conforms to structure                                                                                 |
| pH                        | 4.2-4.5                                                                                               |
| Appearance of Solution    | Passes test                                                                                           |
| Assay (NF)                | 98.0%-100.5%                                                                                          |
| Chloride (Cl-)            | ≤200ppm                                                                                               |
| Fluoride (F-)             | ≤0.001%                                                                                               |
| Insoluble Substance       | ≤0.2%                                                                                                 |
| Iron (Fe)                 | ≤10ppm                                                                                                |
| LOD (EP/BP)               | ≤2.0%                                                                                                 |
| LOD (NF)                  | ≤1.0%                                                                                                 |
| Reducing Substances       | Pass                                                                                                  |
| Residual Solvents         | Conforms to NF                                                                                        |
| Total aerobic plate count | 10 <sup>3</sup> cfu/g Maximum                                                                         |

| PARAMETER                             | SPECIFICATION |
|---------------------------------------|---------------|
| <b>Total Coliforms</b>                | Negative      |
| <b>Arsenic (As)</b>                   | ≤2ppm         |
| <b>Assay (EP, BP)</b>                 | 98.0%-100.5%  |
| <b>Lead (Pb)</b>                      | ≤5ppm         |
| <b>Production Date</b>                | DD/MM/YYYY    |
| <b>Sodium (Na)</b>                    | ≤1000ppm      |
| <b>Sulphates (SO<sub>4</sub>)(2-)</b> | ≤300ppm       |

|                                |                                                                                                                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPECIFICATION STATEMENT</b> | The values stated above represent the standard specification for this product, issued under <b>Molekula Ltd</b> 's quality management system. Batch-specific results are provided on the Certificate of Analysis. |
| <b>STORAGE</b>                 | Store as indicated on the product label, away from light, moisture and incompatible materials.                                                                                                                    |

**Molekula Ltd** would like to thank you for your support of our products and service.  
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