

# Technical Data Sheet

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| LITHIUM DIHYDROGEN PHOSPHATE (Battery Grade)                                                                                                                                       |
| Formula: $\text{LiH}_2\text{PO}_4$                                                                                                                                                 |
| Formula weight: 103.93                                                                                                                                                             |
| CAS NO.: 13453-80-0                                                                                                                                                                |
| Physical-chemical properties: colorless transparent crystal, heat decomposition, soluble in water, density $2.46\text{g}/\text{cm}^3$ (at temperature $25\text{ }^\circ\text{C}$ ) |
| Application: Raw material for lithium iron phosphate ( $\text{LiFePO}_4$ ) battery.                                                                                                |
| Quality standard: Q/TJTE 18-2007                                                                                                                                                   |

| Component                                                                                                                    |                      | Lithium Dihydrogen Phosphate |
|------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------|
| $\text{LiH}_2\text{PO}_4$ Content (Min%)                                                                                     |                      | 99.9                         |
| Impurity<br>Content<br>(Max%)                                                                                                | Na                   | 0.025                        |
|                                                                                                                              | Potassium ( K )      | 0.001                        |
|                                                                                                                              | Ca                   | 0.005                        |
|                                                                                                                              | Mg                   | 0.01                         |
|                                                                                                                              | Fe                   | 0.002                        |
|                                                                                                                              | Ni                   | 0.0015                       |
|                                                                                                                              | Al                   | 0.005                        |
|                                                                                                                              | $\text{Cl}^-$        | 0.005                        |
|                                                                                                                              | $\text{SiO}_2$       | 0.005                        |
|                                                                                                                              | $\text{SO}_4^{2-}$   | 0.08                         |
|                                                                                                                              | $\text{H}_2\text{O}$ | 0.3                          |
| Packing: By woven bag with vacuum sealed plastic bag, 25kg/bag.<br>By paper drum with vacuum sealed plastic bags, 40kg/drum. |                      |                              |