



## CERTIFICATE OF ANALYSIS

Product name: PVP K90

Batch No. : 20230621

C A S. NO. : 9003-39-8

Manufacturing date: 2023.06.21

Executive standard:

| Test items             | Quality index      | Result             |
|------------------------|--------------------|--------------------|
| Appearance ( 25°C )    | Transparent liquid | Transparent liquid |
| K value                | 86~96              | 90.7               |
| Aldehyde of CHCHO(ppm) | ≤500               | ≤500               |
| PH                     | 4.0~7.0            | 6.2                |
| N-vinylpyrrolidone(%)  | ≤0.1               | ≤0.1               |
| Moisture(%)            | ≤5.0               | 2.6                |
| Sulfate ash(%)         | ≤0.1               | 0.09               |
| Heavy Metal(ppm)       | < 10               | < 10               |
| Nitrogen(%)            | 11.5~12.8          | 12.0               |
| Hydrazine(ppm)         | ≤1.0               | ≤1.0               |
| Peroxide as(ppm)       | ≤400               | ≤400               |
| Sold contennt % min    | ≥95                | ≥95                |

Signed by:

沈阳伊斯特化学科技有限公司  
SHENYANG EAST CHEMICAL  
SCIENCE-TECH CO., LTD.