

# N-Butylpyrrolidone

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## NBP · Technical Data Sheet

|                          |                                   |                         |              |
|--------------------------|-----------------------------------|-------------------------|--------------|
| <b>Product name</b>      | N-Butylpyrrolidone                | <b>Abbreviation</b>     | NBP          |
| <b>CAS No.</b>           | 3470-98-2                         | <b>EC No.</b>           | 222-437-8    |
| <b>Molecular formula</b> | C <sub>8</sub> H <sub>15</sub> NO | <b>Molecular weight</b> | 141.21 g/mol |

**Product description.** A colourless to light-yellow transparent liquid for coatings, inks, insulating varnishes and agricultural-chemical applications.

## 1 Key physical data

|                                 |                                               |                         |                    |
|---------------------------------|-----------------------------------------------|-------------------------|--------------------|
| <b>Appearance</b>               | Colourless to light-yellow transparent liquid | <b>Water solubility</b> | 100 wt%            |
| <b>Boiling point</b>            | 243.8 °C                                      | <b>Flash point</b>      | 108 °C, open cup   |
| <b>Relative density</b>         | 0.96 at 20 °C                                 | <b>Vapour pressure</b>  | 0.013 kPa at 25 °C |
| <b>Autoignition temperature</b> | 210 °C                                        |                         |                    |

## 2 Quality specification

Product-grade limits. Batch-specific COA is provided for individual shipment release.

| Test item | Typical method | Unit  | Superior | First  | Qualified |
|-----------|----------------|-------|----------|--------|-----------|
| Purity    | GC             | % w/w | ≥ 99.0   | ≥ 98.0 | ≥ 95.0    |
| Water     | —              | % w/w | ≤ 0.20   | ≤ 0.30 | ≤ 0.50    |
| Colour    | —              | Hazen | ≤ 30     | ≤ 40   | ≤ 50      |

### 3 Applications

Coatings, inks, insulating varnishes and agricultural-chemical applications requiring a high-boiling polar solvent.

### 4 Product information

This Technical Data Sheet presents key product and quality information for business-to-business evaluation. Product selection should be based on the intended process, formulation and applicable customer requirements.

### 5 Packaging, storage and documentation

|                             |                                                                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard packaging</b>   | 200 kg plastic drum; 25 kg plastic drum. Other pack sizes may be available upon request.                                                              |
| <b>Storage conditions</b>   | Store tightly closed in a cool, dry, well-ventilated place away from direct sunlight. Keep away from strong oxidizers, strong acids and strong bases. |
| <b>Shelf life</b>           | 12 months unopened under normal cool and dry storage conditions.                                                                                      |
| <b>Batch documentation</b>  | Batch-specific Certificate of Analysis (COA) available for shipment release. Current SDS/MSDS available on request.                                   |
| <b>Safety and transport</b> | For safety, handling, storage, transport and emergency measures, refer to the current SDS/MSDS applicable to the supplied product and destination.    |

**Technical-document note.** The specification values in this sheet apply to the selected product grade. Product data are subject to revision. For safety information and shipment-specific results, refer to the current SDS/MSDS and the batch-specific COA.

**Business contact:** baixuan@nem.com.cn · +86 13513926553 · www.nem.com.cn

NEM / Xinmaiqi · Manufacturer and supplier of specialty chemical materials