GRM1138  1,10-Phenanthroline monohydrate, Hi-LR™

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**Product Information**

- **Product Code**: GRM1138
- **Product Name**: 1,10-Phenanthroline monohydrate, Hi-LR™
- **Synonym**: o-Phenanthroline monohydrate
- **Molecular Formula**: C_{12}H_{8}N_{2}H_{2}O
- **Molecular Weight**: 198.22
- **CAS No.**: 5144-89-8
- **EC No.**: 200-629-2
- **HS Code**: 2933 99 80
- **Shelf Life**: 3 years

**Technical Specification**

- **Appearance**: White to off-white crystals or powder or needle-like crystals (May become cream coloured during storage)
- **Solubility**: 33.3 mg soluble in 1 mL of alcohol
- **Melting range**: 97 - 104°C
- **Suitability as redox indicator**: Passes test
- **Suitability for determining iron**: Passes test
- **Water (K.F.)**: 8.00 - 10.00%
- **Assay (NT, on anhydrous basis)**: 99.50 - 102.00%

**GHS Safety Information**

- **Hazard Statement(s)**: H301-H410
- **Precautionary Statement(s)**: P273-P301+P310-P501
- **Signal Word**: Danger

**Risk and Safety Information**

- **R-Phrase(s)**: 25-50/53
- **S-Phrase(s)**: 45-60-61
- **WGK**: 3
- **RTECS**: SF8300000
- **Storage Temperature(°C)**: Store below 30°C

The information contained herein is believed to be accurate and complete. However no warranty or guarantee whatsoever is made or is to be implied with respect to such information or with respect to any product, method or apparatus referred to herein.
## Transport Information

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