

**Product Name:** L-Lysine monohydrate, 97%  
**Catalog Number:** A13040.36

---

**CAS Number:** 39665-12-8  
**IUPAC Name:** (2S)-2,6-diaminohexanoic acid hydrate  
**Molecular Formula:** C<sub>6</sub>H<sub>16</sub>N<sub>2</sub>O<sub>3</sub>  
**Molecular Weight:** 164.21  
**MDL Number:** MFCD00151035  
**InChI Key:** HZRUTVAFDWTKGD-XZNNNFJINA-N  
**SMILES:** O.NCCCC[C@H](N)C(O)=O  
**Synonym:** lysine monohydrate

## Product Specification

**Appearance (Color):** White to cream to pale yellow  
**Form:** Powder  
**Water Content (Karl Fischer Titration):** 5.8-15.6% (0.5-1.5 waters, UK-sourced material)  
**Optical Rotation:** 22.6 ± 0.5° (C = 2 in 6M HCl, UK-sourced material)  
**Assay from Supplier's CofA:** ≥96.0% (US-sourced material)  
**Loss on Drying:** ≤11.0% (US-sourced material)  
**Comment:** Material sourced in UK and US  
**Assay (Non-aqueous acid-base Titration):** ≥96.0 to ≤104.0% (UK-sourced material)

---

**Date Of Print:** 09/23/2025

*Product Specifications are subject to amendment and may change over time. Data contained is accurate as of the date printed.*