



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

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|-------------------------------------|---|
| Catalog Number | 04-1534 |
| Product Name | H-Gln-OtBu·HCl L-Glutamine α - <i>t</i> -butyl ester hydrochloride |
| Lot Number | 500125 Aa |
| CAS Registry Number | 39741-62-3 |
| Molecular Formula | C ₉ H ₁₈ N ₂ O ₃ ·HCl |
| Molecular Weight | 238.72 |
| Appearance | White powder |
| Solubility | Clearly soluble (c = 5% in AcOH 80%) |
| Specific Optical Rotation | $\alpha_{D}^{25} = +15.9^{\circ}$ (c = 1% in MeOH) |
| Chloride content (Titration) | 15.1% (AgNO ₃) |
| Purity by TLC | Detection : UV, NH, IRH |
| System 1:CMA1 | ≥99% |
| System 2:100C | ≥99% |
| Storage | Store at -0°C |