



**Melting Point:** Mp 231.5° (225-226°)

**Optical Rotation:**  $[\alpha]_D +30$  (1M HCl)

**Solubility:** BERDY SOL: Sol. H<sub>2</sub>O; fairly sol. MeOH

**UV:** [neutral]  $\lambda_{\max}$  246 () (H<sub>2</sub>O) (Berdy) [acid]  $\lambda_{\max}$  246 () (HCl) (Berdy) [base]  $\lambda_{\max}$  260 () (NaOH) (Berdy)

**Hazard & Toxicity:** BERDY HAZD : LD<sub>50</sub> (mus, ipr) 5000 mg/kg

>>**Derivative:** *N*<sup>5</sup>-(4-Methoxybenzyl)

**Synonym(s):** *N*<sup>5</sup>-(4-Methoxybenzyl)glutamine

**Molecular Formula:** C<sub>13</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>

**Molecular Weight:** 266.296

**Accurate Mass:** 266.126658

**Percentage Composition:** C 58.64%; H 6.81%; N 10.52%; O 24.03%

**Biological Source:** Constit. of the xylem sap of the roots of *Cucurbita maxima* x *Cucurbita moschata*

**Physical Description:** Amorph. solid

**Melting Point:** Mp 214-215 dec.°

**Optical Rotation:**  $[\alpha]_D^{22} +23$  (c, 0.1 in 1M HCl)

**UV:** [neutral]  $\lambda_{\max}$  224 (log  $\epsilon$  4.1); 273 (log  $\epsilon$  3.2) (H<sub>2</sub>O)

>>**Variant:** (±)-form

**CAS Registry Number:** 585-21-7

**Molecular Formula:** C<sub>5</sub>H<sub>10</sub>N<sub>2</sub>O<sub>3</sub>

**Molecular Weight:** 146.146

**Accurate Mass:** 146.069143

**Percentage Composition:** C 41.09%; H 6.90%; N 19.17%; O 32.84%

**Physical Description:** Prisms (Me<sub>2</sub>CO aq.)

**Melting Point:** Mp 186 dec.°

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