

**N^o-NITRO-L-ARGININE METHYL ESTER
HYDROCHLORIDE**

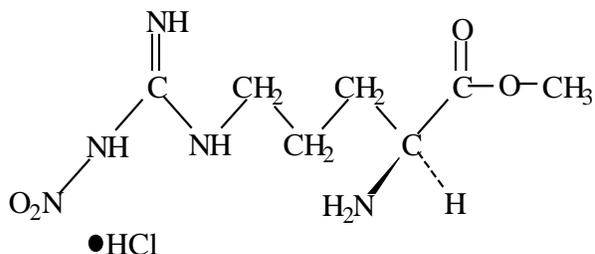
Sigma Prod. No. N5751

CAS NUMBER: 51298-62-5

ACRONYM: L-NAME

SYNONYM: N^G-Nitro-L-Arginine Methyl Ester**PHYSICAL DESCRIPTION:**

Molecular weight: 269.7

Molecular formula: C₇H₁₅N₅O₄•HClMelting point: 159-161°C¹, 154-155°C²Optical rotation: +14.5° to +17.1°¹**STORAGE / STABILITY AS SUPPLIED:**

This product should be stored below 0°C. A control lot has remained at least 98% pure after eight years when stored below 0°C.

SOLUBILITY / SOLUTION STABILITY:

Soluble in water at 50 mg/ml resulting in a clear to very slightly hazy colorless solution.

Keep solutions on ice (0°C) during the course of one day.⁴

APPLICATIONS:

Uses include inhibition of nitric oxide production on vascular fluid filtration, protein clearance and microvascular permeability;⁵ Inhibition of acetyl choline induced vasorelaxation;³ Possible treatment of hypotension due to septic shock.⁵

REFERENCES:

1. *J. Amer. Chem. Soc.*, vol. 78, 238 (1956).
2. *J. Biol. Chem.*, vol. 208, 751 (1954).
3. *British Journal of Pharmacology*, vol. 99, 409 (1990).
4. Kubes, P., Granger, D.N., *Amer. J. Physiol.*, vol. 262, p.H611 (1992).
5. Petros, A. et al., *The Lancet*, vol. 338, 1557 (1991).

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