**PRODUCT INFORMATION**

**Stearamide**  
*Item No. 21087*

**CAS Registry No.:** 124-26-5  
**Formal Name:** octadecanamide  
**Synonyms:** Amide C18, NSC 66462, Octadecanamide, Stearic Amide, Stearoyl Amide  
**MF:** C₁₈H₃₇NO  
**FW:** 283.5  
**Purity:** ≥98%  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

**Laboratory Procedures**

Stearamide is supplied as a crystalline solid. A stock solution may be made by dissolving the stearamide in the solvent of choice. Stearamide is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of stearamide in these solvents is approximately 22, 20, and 14 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of stearamide can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of stearamide in PBS, pH 7.2, is approximately 50 µg/ml. We do not recommend storing the aqueous solution for more than one day.

**Description**

Stearamide is a primary fatty acid amide that is often used in the synthesis of organic chemicals and surfactants. Levels of stearamide are reported to be up-regulated in the serum of patients with hepatic cirrhosis. Thus, it may be a potential biomarker for disordered fatty acid metabolism related to fatty liver diseases.

**Reference**