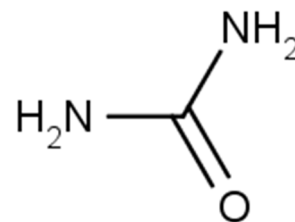




## Urea, ultra pure

<b>Catalog No:</b>	50250
<b>Lot No:</b>	XXXXXX
<b>Cas No:</b>	57-13-6
<b>Formula:</b>	CH <sub>4</sub> N <sub>2</sub> O
<b>MW:</b>	60.06
<b>Supplied as:</b>	solid
<b>Stability:</b>	stable at room temperature



### Background

Urea in concentrations up to 10 M is a powerful protein denaturant as it disrupts the noncovalent bonds in the proteins. This property can be exploited to increase the solubility of some proteins. A mixture of urea and choline chloride is used as a deep eutectic solvent, a type of ionic liquid. Urea in concentrations up to 8 M can be used to make fixed brain tissue transparent to visible light while still preserving fluorescent signals from labeled cells. This allows for much deeper imaging of neuronal processes than previously obtainable using conventional one photon or two photon confocal microscopes.

### Tests

**Appearance:**  
**Assay (from N):**  
**Melting point:**  
**Heavy metals (Pb):**  
**Fe:**  
**Chloride:**  
**Sulfate:**  
**Suplhated ash:**

### Specifications

white substance  
≥99.9%  
133.5 °C  
≤0.0001%  
≤0.0001%  
≤0.002%  
≤0.005%  
≤0.05%

### Usage

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**