

## StarChem™ EU-50

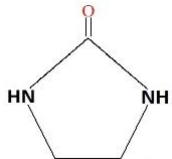
### Product Description:

#### Industrial:

StarChem™ EU 50 solution is an organic intermediate used in various chemical industries. It was originally used for the production of dimethylol ethylene urea thermosetting resins in textiles and paper. It is also used as a scavenging agent to reduce the free formaldehyde in phenolic, melamine, glyoxal and urea formaldehyde resin systems for the coatings, construction and textile industries.

#### Pharmaceutical:

Ethylene Urea (2-imidazolidone) can be used in a variety of new antibiotic intermediates such as mezlocillin acid and azlocillin acid. It also can be used as an intermediate in anti-schistosomiasis drugs and as a basic material for third-generation penicillin.

Formula	C <sub>3</sub> H <sub>6</sub> N <sub>2</sub> O	 2-Imidazoleidinane N,N Ethyleneurea 2-Imidazolidone 2-Oxoimidazolidine
Molecular Weight	86.1	
CAS Number	120-93-4	

### Typical Properties

Appearance	Clear Liquid
Color (APHA)	<150
Free Amine	<250 ppm
pH (neat)	4.5 to 5.5
% Solids	40-45

### Application:

StarChem™ EU-50 can be very effective at scavenging formaldehyde in various resin systems. Reduction of 75% can be achieved depending on application conditions and the resin system properties. We recommend using 2-5% of StarChem™ EU-50 in most applications. The exact amount needed would depend on many variables, but laboratory experimentation should be performed to establish optimized dosage.

### Storage conditions:

StarChem™ EU-50 has a shelf life of at least twelve months from the date of delivery; if stored in original, unopened containers at temperatures not exceeding 30°C (86°F). Continued storage beyond the designated shelf life does not necessarily mean the material cannot be used. However, renewed testing of the most important properties is imperative.

 [www.StarChemGlobal.com](http://www.StarChemGlobal.com)

To request a sample:

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