

# GLYCOLURIL

## PRODUCT DESCRIPTION

Glycoluril is a functional substance which is used in various branches of industry and national economy.

The compound is used as a modifier in production of high quality low-toxic resins in varnish-and-paint (glycoluril resins), wood-processing (urea-formaldehyde, phenol-formaldehyde resins) and other branches of industry.

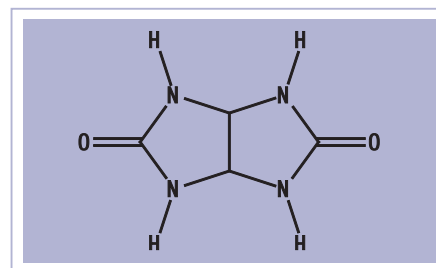
Glycoluril is an effective nitrogen-containing slow-release fertilizer. When placed in soil, glycoluril significantly improves the conditions of growth and development of the plants (both aboveground and root parts), germination ability of a number of agricultural crops also increases (wheat, fruit, berry, etc.). The positive effects of pre-seeding treatment of seeds, ground application and aftereffects have been observed.

Glycoluril is used in production of various powder coatings, including thermosetting, waterproof and other protective coatings.

Glycoluril is used in pharmaceuticals to synthesize substrates for anti-cancer agents (cucurbiturils, polyrotaxanes, etc.), stem cell isolation, etc.

Glycoluril is used in gas chromatography as a phase working in a wide range of temperatures and having high thermal stability and ability to separate alkanes, halogen hydrides, aromatic hydrocarbons, alcohols, esters, ketones, carbon acids, amines, etc.

## Structural formula



CAS: 496-46-8

**Chemical name:** 2,4,6,8-tetraazabicyclo[3.3.0]octane-3,7-dione

**Molecular (gross) formula:** C<sub>4</sub>H<sub>6</sub>N<sub>4</sub>O<sub>2</sub>

## SPECIFICATIONS

Assay, %	no more than 97
Appearance	white or yellow powder
Moisture content, %	no more than 0.5
Package	plastic bags

## PRODUCT SAFETY

Product corresponds to 4 class of hazard according to Russian state standard GOST 12.1.007 (marginally hazardous substances). Can be harmful, if swallowed.

Personal protection equipment: eye-shields, rubber gloves, protective clothes, respirator RPG-67 (patron of type A).

### Certified product

Manufacturer: Novochem LLC (Tomsk)  
 Glycoluril, TS 2478-001-80061478-2011 with chng. 1

H303;  
**WARNING**