

# Acrylamide Formation Mechanism In Heated Foods

What is acrylamide? Acrylamide is a chemical used primarily to make substances called polyacrylamide and acrylamide copolymers. Polyacrylamide and acrylamide copolymers are used in many industrial ... What is acrylamide? Acrylamide is a chemical that can form in some foods during high-temperature cooking processes, such as frying, roasting, and baking. Acrylamide has a wide variety of uses as a polymer or copolymer in such applications as adhesives, fibers, paper sizing, molded parts, water coagulant aids, grouting agent, and textiles. Nov 26, 2025 · This article explains what acrylamide is, how it forms, its potential link to cancer, which foods contain it, and practical tips for reducing intake. Acrylamide forms in some starchy foods during high-temperature cooking processes. Learn what we know about acrylamide and cancer risk here. Acrylamide is used as a reactive monomer and intermediate in the production of organic chemicals and in the synthesis of polyacrylamides. Acrylamide is a byproduct of the Maillard reaction, the chemical process responsible for browning in cooked food. When certain amino acids (primarily asparagine, which is abundant in potatoes and ... Acrylamide is formed in foods that are rich in carbohydrates (particularly potatoes) when they are fried, grilled, or baked at normal cooking temperatures. Levels of acrylamide in these foods increase with ... Mar 4, 2022 · “Acrylamide arises in certain foods because of a chemical reaction when they are cooked at high temperature,” says dietitian Kendall Stelwagen. “Acrylamide forms when foods like potatoes and ... Acrylamide (or acrylic amide) is an organic compound with the chemical formula  $CH_2=CHC(O)NH_2$ . It is a white odorless solid, soluble in water and several organic solvents. From the chemistry perspective, ...

**Acrylamide in food: What it is & How to reduce levels - Eufic**  
**What Is Acrylamide in Food and Should You Worry?**

[Acrylamide Questions and Answers | FDA](#)

**Acrylamide - Wikipedia**

[Acrylamide](#)

[5 facts about acrylamides in food | UT MD Anderson](#)

**Acrylamide | Public Health Statement | ATSDR**

*Acrylamide and Cancer Risk - American Cancer Society*

**Acrylamide | C3H5NO | CID 6579 - PubChem**

[Acrylamide and Cancer Risk - NCI](#)

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