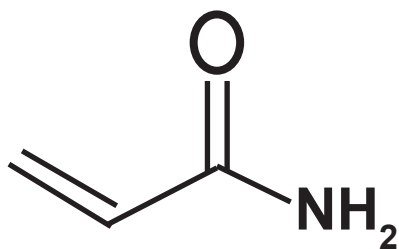


Acrylamide



Acrylamide is an organic compound which can cause neurotoxic effect leading to cancer. It is formed by reaction of 2 naturally occurring GRAS (Generally Recognized as Safe) food ingredients fried at high temperature.

Amino acid + Sugar @180°C → Acrylamide



The compound is naturally formed in food products such as baked goods, cereals, potato products and coffee during an amino acid-sugar reaction called Maillard or Browning reaction. Acrylamide is only formed when certain amino acids and sugar combine in the presence of heat higher than 120 degrees Celsius (248°F).

Thus, high-temperature cooking such as frying, roasting or baking is most likely to cause acrylamide formation. Boiling and steaming do not typically form acrylamide. Additionally, acrylamide is more likely to accumulate when cooking is done for longer periods or

at higher temperatures. Acrylamide in your diet could contribute to a lifetime risk of developing cancer.

TUV India has developed and validated an advanced analytical method, leveraging state-of-the-art equipment, we've achieved the most sensitive Limit of Quantification (LOQ) available in the market for testing acrylamide in food items such as coffee beans, biscuits, and potato fries, among others.

In today's landscape of heightened consumer awareness and proactive health safety initiatives, it is crucial to subject food products to thorough acrylamide testing. This ensures that consumers are well-informed about any potential risks associated with specific food items, empowering them to make informed choices.

By continuously improving our analytical capabilities and setting new benchmarks in sensitivity and precision, TUV India strives to support the food industry in delivering safer products while fostering a culture of transparency and consumer-centric focus.



About Us:

TUV India Pvt. Ltd. (TÜV NORD GROUP) is a customer-focused, innovative, and independent, technical, quality & safety services organization, dedicated to providing future-proof solutions through technological excellence for the success of its customers with the highest level of integrity. With a presence at over 40 strategic locations in India; a branch office in Sri Lanka and Bangladesh; state-of-the-art laboratories at Pune, Bengaluru, Noida and Jamnagar; 100 important countries worldwide and through digital means, we are always connected to you, our esteemed customer, anywhere, anytime.

We are proud to provide increasing levels of services to the best known, largest global and national companies as well as medium and small industries in diverse sectors like Oil & Gas, Petro-chemical, Nuclear, Renewables, Infrastructure, Food, Power, Manufacturing, Chemicals, Pharma,

Paper, Automobiles, Railways, Aerospace, Defence, IT, Health, Hospitality, Retail, etc.

Over 1400 competent and experienced TUV India experts spread across India and over 14000 TÜV NORD experts all over the world, enthusiastically support our clients by providing value-added services in Industry Inspection, European / International Approvals, Management System & IT Certification, Sustainability, Energy Audit, Water Audit, Carbon Services, Building Infrastructure & PMC, Renewable Energy, Food & Packaging Testing, Food Certification & Inspection; Testing of restricted and banned chemicals in Automotive and Electrical & Electronics components and other regulated industries, Product Testing – Electricals, Electronics and Industrial Machinery; Product Certification; Petroleum, Chemicals & Gas Cargo Inspection; Petroleum, Chemicals & Gas Testing; Railway Technology; Engineering, Safety Studies, and knowledge enhancing training programs under TÜV India Training Academy.

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