

Question:

Does UV light enter through my kitchen window even on a cloudy, rainy day?

Answer:

Yes, UV light enters through kitchen windows even on cloudy or rainy days. **UVA rays**, which are responsible for skin aging and can penetrate deep into the skin, pass through standard window glass and cloud cover with minimal obstruction.

- **Glass Penetration:** Standard window glass blocks most **UVB rays** (which cause sunburn) but allows **50% to 75%** of UVA rays to pass through.
- **Weather Impact:** Clouds and rain do not block UV radiation entirely; up to **80%** of UV rays can penetrate cloud cover, meaning exposure continues during overcast or rainy weather.
- **Risk:** While you are unlikely to get a sunburn indoors, prolonged exposure to UVA rays through windows can contribute to cumulative skin damage and premature aging over time.
- **UVA** is the primary driver for activating chlorine dioxide in solar-activated processes, while UVC drives the phototransformation of its byproducts like chlorite.

AI-generated answer. Please verify critical facts. Brave Search

Comments:

We know that UVA and UVC rays can destroy chlorine dioxide gas (CLO₂) in CDS, CDH and MMS1, instantly. So, it might be a good idea to make CLO₂ products and fill amber or black dosing bottles at night in our kitchens, instead of during daylight hours of the day. If your kitchen window has an opaque curtain, that may work.

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