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An Experimental Study of Furan Adsorption and Decomposition on Vicinal Palladium Surfaces Using Scanning Tunneling Microscopy

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**Highlights**

- Furan on Pd(111) terraces at 225K lies flat and adsorbs at upper step edges.
- Furan molecules diffuse more easily on a narrow terrace than a wide one at ~200K.
- Upper step edges catalyze furan decomposition, and C<sub>3</sub>H<sub>3</sub> diffuses to lower edges.
- C<sub>3</sub>H<sub>3</sub> decomposition products are visible at 415K and on narrow terraces at 288K.

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