

## UNVEILING THE EIGHT FORMS OF CAFFEIC ACID

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Herein we report a complete conformational analysis of caffeic acid, a relevant polyphenol<sup>[1]</sup>, and the main hydroxycinnamic acid found in humans' diet using laser ablation chirped-pulse Fourier transform microwave (LA-CP-FTMW) spectroscopy. The entire conformational space consisting of eight distinct rotameric species has been fully deciphered based on a thorough inquiry of the trend of the rotational constants supported by high-level theoretical computations.

<sup>[1]</sup>A. M. Boudet, 2007, *Phytochemistry*, 68, 22-24, 2722-2735

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