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J. Phys. Chem. A [Citation Search](#)

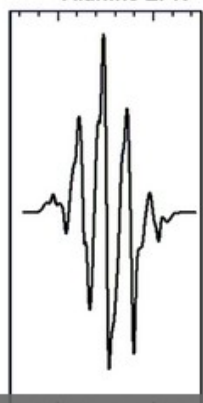
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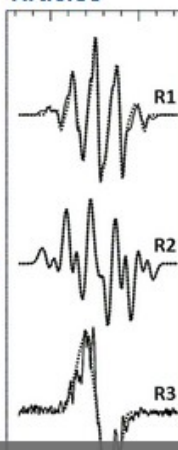
Alanine EPR



Decompose

Simulation (EPR)

Multivariate Analysis (MCA)



The Journal of Physical Chemistry A

In Quest of the Alanine R3 Radical: Multivariate EPR Spectral Analyses of X-Irradiated Alanine in the Solid State
Eirik O. Jåstad, Turid Torheim, Kathleen M. Villeneuve, Knut Kvaal, Eli O. Hole, Einar Sagstuen, Eirik Malinen, and Cecilia M. Futsaether

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[*] pour tronquer plusieurs caractères.

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drink? (pour drink ou drinks).

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Tammy J. Dwyer and Jeremiah D. Fillo

J. Chem. Educ., 2006, 83 (2), p 273

Publication Date (Web): February 1, 2006 (Article)

DOI: 10.1021/ed083p273

We used a facile, aqueous reaction coupled with gas chromatography-mass spectrometry (GC-MS), visible spectrophotometry, and high performance liquid chromatography (HPLC) to quantify the amounts of α -dicarbonyl compounds in wine samples. The aqueous ...

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Assaying α -Dicarbonyl Compounds in Wine: A Complementary GC-MS, HPLC, and Visible Spectrophotometric Analysis

Tammy J. Dwyer and Jeremiah D. Fillo
Department of Chemistry, University of San Diego, San Diego, CA 92110

J. Chem. Educ., 2006, 83 (2), p 273
DOI: 10.1021/ed083p273
Publication Date (Web): February 1, 2006

Abstract

We used a facile, aqueous reaction coupled with gas chromatography-mass spectrometry (GC-MS), visible spectrophotometry, and high performance liquid chromatography (HPLC) to quantify the amounts of α -dicarbonyl compounds in wine. The reaction between an α -dicarbonyl compound and *o*-phenylene diamine yields a quinoxaline molecule with an absorbance maximum of 315 nm. This reaction was used to quantify quinoxaline via mass. Likewise, owing to the similar absorbance spectra of the reaction products, visible spectrometry is not useful for quantitation. The quinoxaline maximum to use for optical detection of the quinoxalines by HPLC. The analytical techniques used in this experiment complement each other since visible spectrophotometry is needed to determine the absorption wavelength, which is used for HPLC analysis; and HPLC is used for quantitation while GC-MS is used to confirm the identities of the reaction products.

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