

A New Synthesis of Calcium *N*-(5-Hydroxynicotinoyl)-L-glutamate and Its X-ray Diffraction Structure

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Abstract—A new synthesis of *N*-(5-hydroxynicotinoyl)-L-glutamic acid via a 5-hydroxynicotinic acid imidazolide intermediate has been developed. Its calcium salt (Ampasse) has been synthesized and its structure was studied by X-ray diffraction analysis. The reaction conditions for all stages of the process have been optimized and a method for the purification of the substance has been improved.

Keywords: Ampasse, calcium *N*-(5-hydroxynicotinoyl)-L-glutamate, *N*-(5-hydroxynicotinoyl)-L-glutamic acid, 5-hydroxynicotinic acid, diethyl L-glutamate, XRD

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