

Teilnehmer: Derndorfer Ronald, Has Bernhard, Kneringer Tomy Lee, Tawdrous Martin

Synthese von 3,5-Di-tert-butyl-4-hydroxybenzaldehyd

Betreuer: Mag. Dr. Herbert Angleitner

The topic of this thesis included the synthesis of a known substituted benzaldehyde via a new synthesis route and determination of the reaction mechanism.

The first reaction was to allylic bromine the starting material, a methyl aromatic compound, through a Wohl Ziegler reaction. This reaction product was then isolated and reconditioned. In the subsequent reaction step, the intermediate was converted to a primary amine, via a Delepine reaction with Hexamethylenetetramine in excess, which was not stable and was therefore oxidized immediately by the Hexamethylenetetramine via a Sommelet-oxidation all the way to the aldehyde. That product was then reconditioned and isolated.

