Thermal Analysis of the Decomposition of Ammonium Uranyl Carbonate (AUC) in Different Atmospheres - DTU Orbit (31/12/2018)

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The intermediate products formed during thermal decomposition of ammonium uranyl carbonate (AUC) in different atmospheres, (air, helium and hydrogen) have been determined by thermal analysis, (TG, and DTA) and X-ray analysis. The endproducts observed are U3O8 and UO2 in air/He and hydrogen, respectively. The following intermediate products were observed in all atmospheres: http://www.sciencedirect.com/globalproxy.cvt.dk/cache/MiamiImageURL/B6THV-4E4K80TV-FB-1/0?wchp=dGLzVIlz-zSkWW X-ray diffraction analysis showed that these phases were amorphous.

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