



TÜV SÜD Process Safety

Experimental report / Safety Data

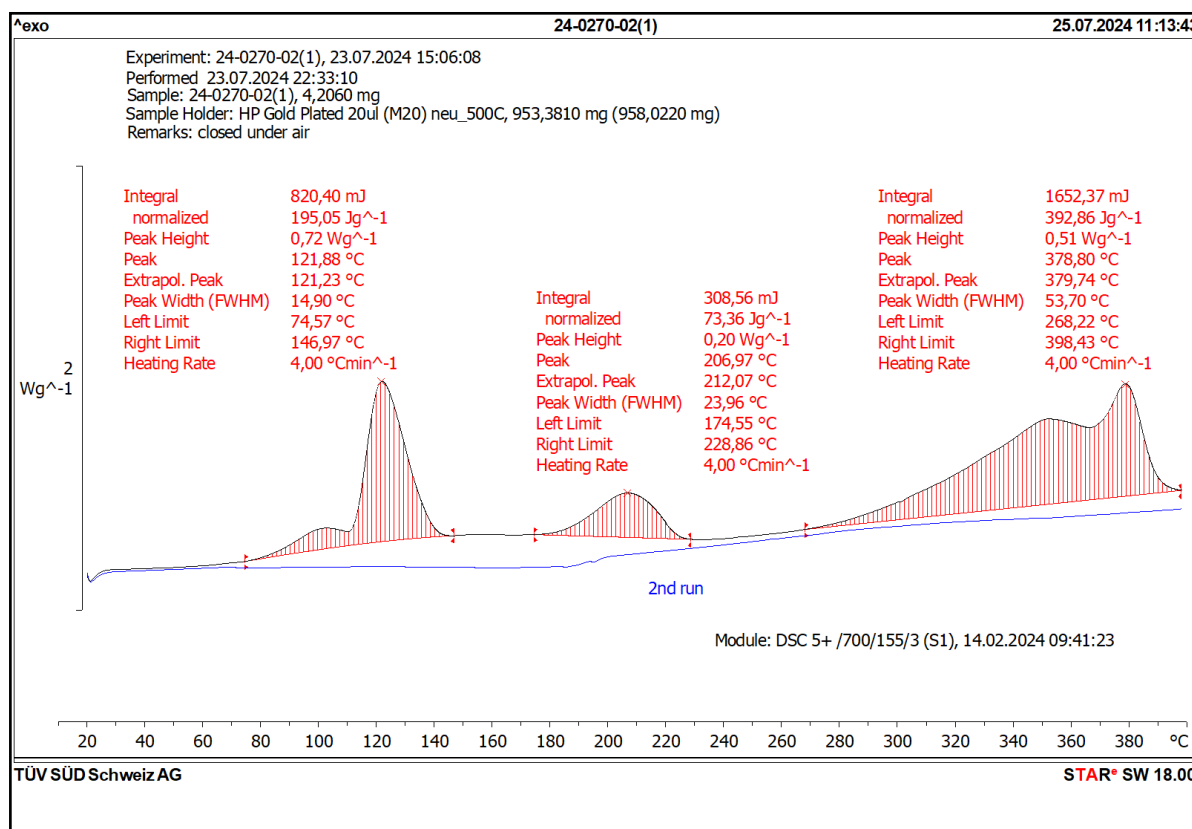
WWU-01-162

Sample: 0726410439-24-0270-02

DSC-Test dynamic

Sample: tested as delivered, Maximum Test Temperature: 400°C, Heating Rate: 4 K/min, Sample container: M20 (gold plated high pressure steel crucible), Atmosphere: Closed under air, Baseline: Yes

1st exotherm 75°C - 147°C; Peak: 122°C; Q'= 195kJ/kg
2nd exotherm 175°C - 229°C; Peak: 207°C; Q'= 73kJ/kg
3rd exotherm 268°C - 398°C; Peak: 379°C; Q'= 393kJ/kg



Description

The sample is heated with constant heating rate under controlled atmosphere, in most cases in a closed crucible (see test conditions). The heat flow to the sample is recorded and compared to the heat flow to an inert reference substance heated in parallel.

During exothermic processes in the sample, the heatflow to the sample will be smaller, than the heat flow to the reference, it will be higher for endothermic processes.

Both endo- and exothermic signals are evaluated and the temperature range, peak temperature, peak signal and specific energy of each thermal signal are determined and calculated respectively.

For thermal processes such as reactions, distillations or drying operations, the maximum permissible process temperatures can be derived from this.