

TG-MS facility at SINTEF MK in Oslo

Department: Process Intensification and Catalysis
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- Netzsch STA 449 F1 Jupiter instrument coupled to a Mass Spectrometer (MS) for simultaneous TGA-DSC-MS analysis .
- Instrument specifications:
 - Integrated mass flow controllers for 2 purge gases and 1 protective gas
 - Separate mixing station for up to 4 different gases
 - High vacuum-tight assembly up to 10^{-4} mbar (10^{-2} Pa)
 - Liquid saturator
 - Temperature range -150 °C to 1000 °C
 - TGA resolution: 0.025 μ g
 - DSC resolution < 1 μ W (dependent on sensor)
 - Heating and cooling rates 0.001 K/min to 50 K/min
 - Automatic sample changer for up to 20 samples
 - Sample crucibles in alumina, silica, and platinum.

