

DIFFERENTIAL SCANNING CALORIMETRY (DSC)

Do you need to understand the fundamental Thermodynamic and kinetic properties of materials critical to your success?

How It Can Help:

- Percent (%) crystallinity of polymers
- Heat capacity of materials
- Thermodynamic and kinetic properties of materials
- Basic phase transitions such as melting, crystallization, glassy transition, evaporation, etc.

Detail Description:

A thermoanalytical technique in which the difference in the amount of heat required to increase the temperature of a sample and reference is measured as a function of temperature. Both the sample and reference are maintained at nearly the same temperature throughout the experiment. Generally, the temperature program for a DSC analysis is designed such that the sample holder temperature increases linearly as a function of time.

How Much Does it Cost:

- Typically \$34 per hour, plus assistance if needed.

What Can I Expect:

The unit is located at MCE 1325 (110 Central Campus Dr, Salt Lake City, UT 84112). Schedule a time to use the equipment with the MCE Dept and request assistance if required.

How to Get Started:

- Review training at: <https://mcl.mse.utah.edu/equipment/netzsch-3500-sirius>