203.5 - Differential Scanning Calorimetry and Differential Thermal Analysis

These SRMs are intended for calibration and validation of differential scanning calorimeters, differential thermal analyzers, and similar instruments.
Enthalpy and Temperature of Fusion
Enthalpy and Heat Capacity
Thermal Analysis Purity Set

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	Description	Unit Size	Enthalpy of Fusion (J/g)	Melting Temperature (K)
2232	Indium DSC Calibration Standard - Temperature and Enthalpy of Fusion	1 g	28.51	156.5985°C
2234	Gallium for Thermal Analysis	2 g	80.097	302.9146
2235	Bismuth for Thermal Analysis	1.5 g	53.146	544.556

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203.5(2)- Enthalpy and Heat Capacity

SRM	Description	Unit Size	Molecular Weight (in g/mol)	Temperature Range (in K)
705a	Polystyrene (Narrow Molecular Weight Distribution)	5 g	170,900	10 to 350
720	Sapphire Heat Capacity	15 g		10 to 2250
781D2	Molybdenum - Heat Capacity	10 cm		273.15 to 2800

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203.5(3)- Thermal Analysis Purity Set

SRM	Description	Unit of Issue	Measurand
1514	Thermal Analysis Purity Set	set (4)	4 levels of p-ABA (in mol %)

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