

### 203.1 Combustion Calorimetry (powder form)

These SRMs are for use as standards for calibration of combustion bomb calorimeters used in checking the performance of apparatus and analytical procedures.

Technical Contact: [donald.archer@nist.gov](mailto:donald.archer@nist.gov)

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	Heat of Combustion (in MJ/kg)*	Unit Size (in g)
39j	Benzoic Acid	26.434	30
1656	Thianthrene	33.480	30
1657	Synthetic Refuse-Derived Fuel	13.87**	100
2151	Nicotinic Acid	22.184	25
2152	Urea	10.536	25

---

\* The calorific values (MJ/kg) may decrease upon the aging or normal oxidation of the coals. NIST will continue to monitor these calorific values and report any substantive change to the purchaser.

\*\* Gross calorific value or HHV (Higher Heating Value).

---