

## 106.7 - Zeolites (powder form)

These RMs are intended to provide a common source of zeolite materials for measurement comparisons. Additional reference and information values are provided for atomic ratios of Si to Al and Na to Al, trace element content, enthalpy of formation, unit cell parameters and particle size distributions. Figures are provided showing spectra for NMR analyses, plots of particle size distribution, electron microscope images of particles and plots of variation in sample mass with change in ambient humidity.

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	8850	8851	8852
Description	Zeolite Y	Zeolite A	Ammonium ZSM-5 Zeolite
Unit of Issue	(35-40 g)	(35-40 g)	(35-40 g)

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### Major Components of Zeolite RMs (mass fractions are given in %)

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Aluminum (Al)	8.49	14.766	1.396
LOF	25.37	22.1	8.47
LOI	25.679	21.464	8.5
Si*	22.52	15.27	41.18
Si**	30.336	19.541	45.19
Sodium (Na)	7.225	12.732	

\*Value relative to the hydrated sample mass.

\*\*Value relative to sample mass ignited at 1000 °C.

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only