

108.1 - Alcohols and Ethers [Oxygenates] in Gasoline

SRMs 2294 through 2297 were produced in response to the U.S. EPA Final Rule on Reformulated Gas aimed at reducing the volatile organic compounds emitted from gasoline. SRMs 2294 through 2297 are certified for oxygenate, sulfur, benzene, and toluene, with reference values for olefins and aromatics. Each SRM unit is issued as a set of two sealed 20 mL ampoules.

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 | 2294 | 2295 | 2296 | 2297 |
|--|--|---|---|---|
| Description | Reformulated Gasoline (Nominal Mass Fraction 11% MTBE) | Reformulated Gasoline (nominal 15% MTBE) | Reformulated Gasoline (Nominal Mass Fraction 13 % ETBE) | Reformulated Gasoline (Nominal Mass Fraction 10% Ethanol) |
| Unit of Issue | (2 x 20 mL) | (2 x 20 mL) | (2 x 20 mL) | (2 x 20 mL) |
| Concentration (mass fraction, in %) | | | | |
| Benzene | 1.03 | 0.99 | 1.0 | 1.04 |
| Ethanol | | | | 9.91 |
| Oxygen | <i>2.01</i> | <i>2.66</i> | <i>2.06</i> | <i>3.50</i> |
| Oxygenate | 10.97 | 14.54 | 13.02 | |
| Sulfur | 0.00409 | 0.0308 | 0.0040 | 0.03037 |
| Toulene | 8.29 | 7.89 | 8.02 | 8.27 |

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