

Public Webinar for Proposed Updates to Method 310

Determination of Volatile Organic
Compounds (VOC) in Consumer Products
and Reactive Organic Compounds (ROC) in
Aerosol Coating Products

April 20, 2020
9:00am - 11:00am





Today's Meeting

Webinar Registration:

<https://attendee.gotowebinar.com/register/6936589467662508813>

To participate by phone:

UNITED STATES: +1 (914) 614-3426

AUDIO ACCESS CODE: 309-982-682



Presentation Outline

- Proposed Method 310 updates
 - Q & A
- Proposed revisions to the Consumer Products Regulations
 - Q & A
- This presentation is in conjunction with materials provided per this Public Workgroup meeting

For Webinar attendees: Please type in questions or comments using the Questions tab, on the side bar.

Method 310

- SECTION 1 - APPLICABILITY
- SECTION 2 - REFERENCE METHODS
- SECTION 3 - TESTING TO DETERMINE VOC
- SECTION 4 - CALCULATION OF VOC CONTENT
- SECTION 5 - TESTING TO DETERMINE ROC
- SECTION 6 - CALCULATION OF ROC CONTENT
- SECTION 8 - ALTERNATE TEST METHODS
- APPENDIX A



Method 310: SECTION 1 - APPLICABILITY

- Remove the phrase “the percent by weight of” to allow for consideration of all Consumer Products, as we plan for the future
- Update language to state what M310 specifically determines



Method 310:

SECTION 2 - REFERENCE METHODS

- Revise title from **REFERENCE METHODS** to **REFERENCES**
- References are then subdivided into two parts:
Reference Methods and Literature References
- Reference Methods will be listed alpha-numerically



Method 310:

SECTION 3 - TESTING TO DETERMINE VOC

- Clarify language per the description of Consumer Products analysis
- Revisions in the LVP-VOC section provide clarity and will reflect citations in the CP Regulation
 - These changes will reflect the corresponding language in the CP Regulation and will be outlined in the second part of this presentation



Method 310:

SECTION 4 - CALCULATION OF VOC CONTENT

- Overall revisions to language and equations are for clarity and consistency
- New section to provide specific language and equations for Article 1 regulated (antiperspirant/deodorant) products
- Changes do not impact existing equations



Method 310:

SECTION 5 - TESTING TO DETERMINE ROC

- MLD has completed method development for ROC determination
- Changes will provide a clear and uniform description of this process



Method 310:

SECTION 6 - CALCULATION OF ROC CONTENT

- New section to provide specific language and equations for calculating ROC content and, ultimately, PWMIR, for products subject to reactivity-based limits



Method 310:

SECTION 8 - ALTERNATE TEST METHODS

- Revise Section title from
“ALTERNATE TEST METHODS” to
“ALTERNATIVE TEST METHODS”
- Revisions eliminate superfluous language



Method 310: APPENDIX A

- **Revise title from “APPARATUS AND MATERIALS” to
“EQUIPMENT AND SUPPLIES”**



Discussion and Questions

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Consumer Products Regulations

- Universal changes to Articles 1 through 4
- Article 2 - Consumer Products
- Article 3 - Aerosol Coating Products
- Article 4 - Alternative Control Plan

Consumer Products Regulations: Proposed Revisions for Articles 1 through 4

- Harmonize the use of scientifically accepted descriptor terminology, for consistency
- Insert definitions for Compound, Mixture and Component
 - “Compound” means a molecule of definite chemical formula and structure.
 - “Mixture” means a physical combination of two or more compounds.
 - “Component” means the compound(s) and/or mixture(s) in a consumer product.
- Ensure significant figure consistency in CP Regulations

Consumer Products Regulations: Proposed Revisions for Article 2

- Revise order of language in CP Regulation Test Method section to be consistent with M310 and provide clarity

3.5 Determination of LVP-VOC content, as that term is defined in the Consumer Products Regulation, Article 2, section 94508. Effective January 1, 2015, this section does not apply to non-aerosol “Multi-purpose Solvent” and “Paint Thinner” products sold, supplied, offered for sale, or manufactured for sale in the South Coast Air Quality Management District.

3.5.1 Formulation data. If the vapor pressure and/or boiling point are unknown, the following ASTM methods, which are incorporated by reference herein, may be used to determine LVP-VOC content:

3.5.1.1 Testing to determine the vapor pressure of a compound may be performed using one of the following ASTM methods: ASTM D2879-97, ASTM E1719-97, and ASTM E1782-08.

3.5.1.2 Testing to determine the boiling point of a consumer product may be performed using one of the following ASTM methods: ASTM D86-01, ASTM D850-00, ASTM D1078-01, and ASTM D2887-01.

3.5.2 LVP-VOC determination of compounds or mixtures. The Executive Officer may perform boiling point analysis, per ASTM 2887-01. The Executive Officer will use the nearest 1 percent distillation cut that is greater than 216°C to determine the percentage qualifying as an LVP-VOC.

Consumer Products Regulations: Proposed Revisions for Article 3

- Insert the following method citations into the Test Methods and Compliance Verification Section

Metal Content. The metal content of metallic aerosol coating products shall be determined by ASTM D5381-93, Standard Guide for X-Ray Fluorescence (XRF) Spectroscopy of Pigments and Extenders (Reapproved 2009), which is incorporated by reference herein.

Specular Gloss. Specular gloss of flat and non-flat coatings shall be determined by ASTM D523-08, Standard Test Method for Specular Gloss (June 1, 2008), which is incorporated by reference herein.

Acid Content. The acid content of rust converters shall be determined by ASTM D1613-06, Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products (April 1, 2006), which is incorporated by reference herein.

Consumer Products Regulations: Proposed Revision for Article 4

- Clarifying for consistency that the definition for “LVP” or “LVP Compound” shall have the same meaning as “LVP-VOC”



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