

ARB Method 310 and Reactivity Updates

California Air Resources Board
Special Analysis Section
Monitoring and Laboratory Division

9/12/2012

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Aromatic Compounds in Multi-purpose
Solvent and Paint Thinner Products

Analytical Approach to Quantitating
PWMIR in Aerosol Coatings

Fabric Softener Dryer Sheet SOP
Revision

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Aromatic Compounds in Multi-purpose Solvent and Paint Thinner Products

Regulation requires total aromatic content of MPS/PT products to be less than 1%.

Analytical approach is based on ASTM D5443-04

The above method was modified as follows:

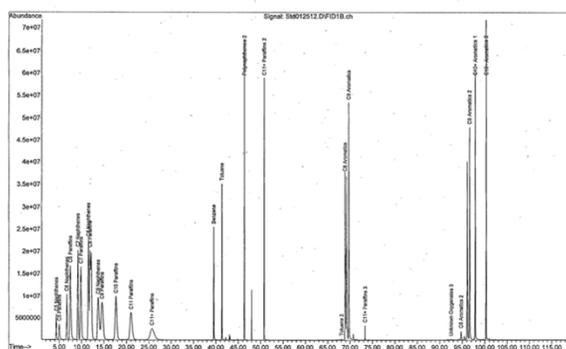
- The boiling point range was extended to 270°C.
- To resolve common ketones and alcohols from the aromatic compounds
- Addition of a Mass Selective Detector

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Typical Standard Chromatogram with the Expected Analyte Resolution and Identification

File : C:\msdchem\1\data\Aro2012\Std012512.D
 Operator : HWJ
 Acquired : 25 Jan 2012, 10:44 using AcqMethod PNAFF.M
 Instrument : FMA Reason #3
 Sample Name : D5443 Std
 Misc Info :
 Vial Number: 2



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**The SOP (SAS12) for Aromatic
Compounds in Multi-purpose Solvent
and Paint Thinner Products is
Available on the Consumer Products
Website at
URL:www.arb.ca.gov/testmeth/cptm/sops.htm**

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Analytical Approach to Quantitating PWMIR in Aerosol Coatings

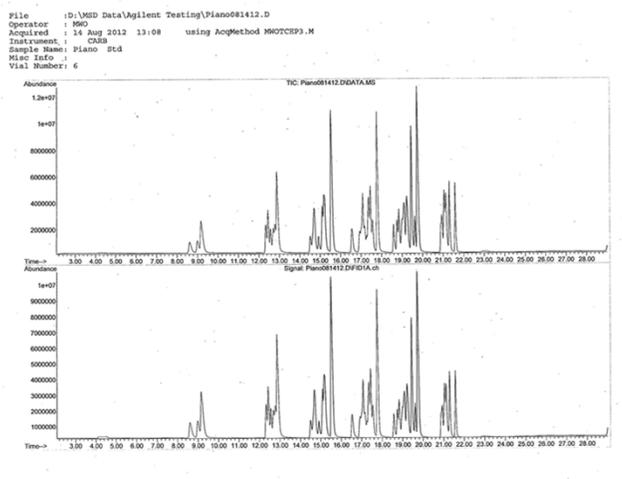
Based on ARB Method 310

Using SAS05 for the analysis of propellants
SAS07 for the analysis of ketones, alcohols, and aromatics
SAS12 for the analysis of additional aromatics
Detailed Analysis for hydrocarbons by carbon number
And other approaches for the analysis of Glycols,
Glycol Esters and Acetates

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Typical Chromatogram of a PIANO Standard



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Analytical Approach to Quantitating PWMIR in Aerosol Coatings

Based on ARB Method 310

Using SAS05 for the analysis of propellants
 SAS07 for the analysis of ketones, alcohols, and aromatic
 SAS12 for the analysis of additional aromatics
 Detailed Analysis for hydrocarbons by carbon number

And other approaches for the analysis of Glycols,
 Glycol Esters and Acetates

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Fabric Softener Dryer Sheet SOP Revision

Based on comments from Stakeholders

ARB Method 310 for the Determination of VOC in Dryer Sheets will be revised to include consideration for water, exempt and LVP compounds

SOP's SAS 01,03,04,07,and 09 will be revised to include the sample preparation and analysis of dryer sheets

As the SOP's are finalized they will be posted to the Consumer Products website:
www.ca.gov/testmeth/cptm/sops.htm

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