

## ADDITIONAL SUPPORTING DOCUMENTS AND INFORMATION

The following additional supporting documents and information are available for public comment during the supplemental public comment period in the CaRFG3 follow-up rulemaking.

1. ASTM D4806-99, Standard Specification for Denatured Fuel Ethanol for Blending with Gasolines for Use as Automotive Spark-Ignition Engine Fuel, American Society For Testing And Materials, 2001
2. ASTM D5501-94(1998)e1, Standard Test Method for Determination of Ethanol Content of Denatured Fuel Ethanol by Gas Chromatography, American Society For Testing And Materials, 2001
3. ASTM D381-00, Standard Test Method for Gum Content in Fuels by Jet Evaporation, American Society For Testing And Materials, 2001
4. ASTM E203-96, Standard Test Method for Water Using Volumetric Karl Fischer Titration, American Society For Testing And Materials, 2001
5. ASTM E1064-00, Standard Test Method for Water in Organic Liquids by Coulometric Karl Fischer Titration, American Society For Testing And Materials, 2001
6. ASTM D1688-95, Standard Test Methods for Copper in Water, American Society For Testing And Materials, 2001
7. ASTM D1613-96(1999), Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products, American Society For Testing And Materials, 2001
8. ASTM D6423-99, Standard Test Method for Determination of pHe of Ethanol, Denatured Fuel Ethanol, and Fuel Ethanol (Ed75-Ed85) , American Society For Testing And Materials, 2001
9. Additional analysis regarding the effect of transitions from gasoline with one ethanol content to another used by staff to recommend changes to the original staff proposal, and minor corrections to tables in Appendix E of the September 29, 2000 CaRFG3 staff report.  
The following tables are also available at: [www.arb.ca.gov/cbg/meeting/2001/mtg2001.htm](http://www.arb.ca.gov/cbg/meeting/2001/mtg2001.htm)

Table 8: Predicted Change in Total Hydrocarbon Emissions for Fuel Mixtures in Vehicle Tank

Table 9: Predicted Change in NOx Emissions for Fuel Mixtures in Vehicle Tank

Table 10: Predicted Percent Change in Toxic Emissions for Fuel Mixtures in Vehicle Tank

Table 11: Expected Changes in Statewide Exhaust Emissions If All California Gasoline Transitioned to Different Ethanol Content

Table 12: Reid Vapor Pressures for Transitions from Oxygenated to Non-oxygenated Fuel

- Table 13: Reid Vapor Pressures for Transitions from Non-oxygenated to Oxygenated Fuel
- Table 14: Staff Recommendations for Tank Transitions from one Ethanol Fuel to Another and Mitigation of Emissions Impact
- Table 15: Example Calculation for Transition from Non-Oxygenated Fuel to 7.7 vol % Ethanol Fuel (Terminal Tank)
- Table 16: Example Calculation for Transition from Non-Oxygenated Fuel to 7.7 vol % Ethanol Fuel (Underground Tank)
- Table 17: Example Calculation for Transition from Non-Oxygenated Fuel to 7.7 vol % Ethanol Fuel (First Vehicle Tank)
- Table 18: Example Calculation for Transition from Non-Oxygenated Fuel to 7.7 vol % Ethanol Fuel (Second Vehicle Tank)

All of these documents are available for inspection during normal business hours at the Air Resources Board offices, 1001 I Street, Sacramento CA 95812; contact Steve Brisby, Manager of the Fuels Section, at (916) 322-6019.