

**Fuel Marker Solvent Yellow 124 Precision Demonstration [DFM001:OMB # 2060-0566 Expires 3/31/2009]**

<b>Test Method</b>				
Name of Method:				
Organization ID No.(as in ASTM D XXXX-XX):				
<b>Laboratory Identification</b>				
Laboratory Name:				
Laboratory Street Address:				
Laboratory City:				
Laboratory State:				
Laboratory Zip code:				
Laboratory Contact Person:				
Laboratory Contact Phone Number:				
Laboratory Contact Facsimile Number:				
Laboratory Contact E-mail:				
<p>Confidential Business Information Claim. A company may assert a business confidentiality claim covering the information contained in this submission. If no such claim is made the information may be made available to the public by EPA without further notice. All questions of confidentiality will be handled pursuant to 40 CFR Part 2. Is confidentiality claimed for the information in this submission? (Note: Please answer by typing "Yes" or "No" in the adjacent cell.)</p>				
<p><b>Fuel Marker Solvent Yellow 124 Precision Criterion</b> - a standard deviation less than 0.10 milligrams per liter, computed from the results of a minimum of 20 repeat tests made over 20 days on samples taken from a single homogeneous commercially available diesel fuel which meets the applicable industry consensus and federal regulatory specifications and which contains the fuel marker solvent yellow 124 at a concentration in the range of 0.10 to 8 milligrams per liter. The 20 results must be a series of tests with a sequential record of the analyses and no omissions. A lab facility may exclude a given sample or test result only if the exclusion is for a valid reason under good laboratory practices and it maintains records regarding the sample and test results and the reason for excluding them.</p>				
Is fuel marker solvent yellow 124 Precision Criterion Met?		<b>REQUIRED DATA MISSING</b>		
standard deviation		<b>REQUIRED DATA MISSING</b>		
Laboratory Test Identification Number	Date (mm/dd/yyyy)	Time (hh:mm:ss am/pm)	Test Result (mg/l)	Data Entry QC Check on Test Result

				DATA REQUIRED IN CELL D20
				DATA REQUIRED IN CELL D21
				DATA REQUIRED IN CELL D22
				DATA REQUIRED IN CELL D23
				DATA REQUIRED IN CELL D24
				DATA REQUIRED IN CELL D25
				DATA REQUIRED IN CELL D26
				DATA REQUIRED IN CELL D27
				DATA REQUIRED IN CELL D28
				DATA REQUIRED IN CELL D29
				DATA REQUIRED IN CELL D30
				DATA REQUIRED IN CELL D31
				DATA REQUIRED IN CELL D32
				DATA REQUIRED IN CELL D33
				DATA REQUIRED IN CELL D34
				DATA REQUIRED IN CELL D35
				DATA REQUIRED IN CELL D36
				DATA REQUIRED IN CELL D37
				DATA REQUIRED IN CELL D38
				DATA REQUIRED IN CELL D39






DATA REQUIRED IN CELL D34
DATA REQUIRED IN CELL D35


arithmetic average of a continuous series of at least 10 tests  
 /ent yellow 124 standard in the range of 4 to 10 milligrams per  
 (ARV) of that standard by more than 0.05 milligrams per liter.  
 own chemical interferences.

<u>mg/l</u>		
<u>standard</u>		
<b>NO DATA MISSING</b>		
<b>NO DATA MISSING</b>		
		Concentration QC Check on ARV
		ARV TOO LOW IN CONCENTRATION
<b>NO DATA MISSING</b>		
Time (hh:mm:ss am/pm)	Test Result (mg/l)	Data Entry QC Check on Test Result
		DATA REQUIRED IN CELL J26
		DATA REQUIRED IN CELL J27
		DATA REQUIRED IN CELL J28
		DATA REQUIRED IN CELL J29
		DATA REQUIRED IN CELL J30
		DATA REQUIRED IN CELL J31
		DATA REQUIRED IN CELL J32
		DATA REQUIRED IN CELL J33

		DATA REQUIRED IN CELL J34
		DATA REQUIRED IN CELL J35



**Fuel Marker Solvent Yellow 124 Precision Demonstration [DFM001:OMB #**

<b>Test Method</b>	
Name of Method:	Visible Spectrophotometer
Organization ID No.(as in ASTM D XXXX-XX):	ASTM D XXXX-XX
<b>Laboratory Identification</b>	
Laboratory Name:	USEPA National and Vehicle Fuels Emissi
Laboratory Street Address:	2565 Plymouth Road, Mailcode AATSG
Laboratory City:	Ann Arbor
Laboratory State:	Michigan
Laboratory Zip code:	48105
Laboratory Contact Person:	Joe Sopata
Laboratory Contact Phone Number:	202-343-9034
Laboratory Contact Facsimile Number:	202-343-2801
Laboratory Contact E-mail Address:	<a href="mailto:sopata.joe@epa.gov">sopata.joe@epa.gov</a>
<p>Confidential Business Information Claim. A company may assert a business confidentiality claim covering the information contained in this submission. If no such claim is made the information may be made available to the public by EPA without further notice. All questions of confidentiality will be handled pursuant to 40 CFR Part 2. Is confidentiality claimed for the information in this submission? (Note: Please answer by typing "Yes" or "No" in the adjacent cell.)</p>	

**Fuel Marker Solvent Yellow 124 Precision Criterion** - a standard deviation less than 0.1 results of a minimum of 20 repeat tests made over 20 days on samples taken from a single diesel fuel which meets the applicable industry consensus and federal regulatory specific solvent yellow 124 at a concentration in the range of 0.10 to 8 milligrams per liter. The 20 sequential record of the analyses and no omissions. A lab facility may exclude a given sample for a valid reason under good laboratory practices and it maintains records regarding the samples excluding them.

<u>Is fuel marker solvent yellow 124 Precision Criterion Met?</u>	<b><u>PASSED</u></b>		
standard deviation	<b><u>0.06</u></b>		
Laboratory Test Identification Number	Date	Time	Test Result (mg/l)
#####	10/26/2006	8:00 AM	4.000
#####	10/27/2006	8:01 AM	4.030
#####	10/28/2006	8:20 AM	3.999
#####	10/29/2006	8:23 AM	3.998
#####	10/30/2006	9:00 AM	3.905
#####	11/1/2006	9:10 AM	4.040
#####	11/2/2006	9:20 AM	4.101
#####	11/3/2006	9:30 AM	4.000
#####	11/5/2006	9:40 AM	4.000
#####	11/6/2006	9:50 AM	4.100
#####	11/7/2006	10:00 AM	4.009
#####	11/8/2006	10:10 AM	4.080
#####	11/9/2006	10:20 AM	4.101
#####	11/10/2006	10:30 AM	3.987
#####	11/11/2006	10:40 AM	3.995

#####	11/12/2006	10:50 AM	4.005
#####	11/13/2006	11:00 AM	3.901
#####	11/14/2006	11:10 AM	4.101
#####	11/15/2006	11:20 AM	4.009
#####	11/16/2006	11:30 AM	4.090



OK
OK
OK
OK
OK

**Fuel Marker Solvent Yellow 124 Accuracy Demonstration [DFM001:OMB # 2060-0566 Expires 3/31/2009]**

<b>Test Method</b>	
Name of Method:	Visible Spectrophotometer
Organization ID No.(as in ASTM D XXXX-XX):	ASTM D XXXX-XX
<b>Laboratory Identification</b>	
Laboratory Name:	USEPA National and Vehicle Fuels Emissions Laboratory/OAR
Laboratory Street Address:	2565 Plymouth Road, Mailcode AATSG
Laboratory City:	Ann Arbor
Laboratory State:	Michigan
Laboratory Zip code:	48105
Laboratory Contact Person:	Joe Sopata
Laboratory Contact Phone Number	202-343-9034
Laboratory Contact Facsimile Number	202-343-2801
Laboratory Contact E-mail Address	sopata.joe@epa.gov
Confidential Business Information Claim. A company may assert a business confidentiality claim covering the information contained in this submission. If no such claim is made the information may be made available to the public by EPA without further notice. All questions of confidentiality will be handled pursuant to 40 CFR Part 2. Is confidentiality claimed for the information in this submission? (Note: Please answer by typing "Yes" or "No" in the adjacent cell.)	No

**0.10 to 1 milligrams per liter Accuracy Criterion** - the arithmetic average of a continuous series of at least 10 tests performed on a commercially available fuel marker solvent yellow 124 standard in the range of 0.10 to 1 milligrams per liter shall not differ from the accepted reference value (ARV) of that standard by more than 0.05 milligrams per liter. Individual test results shall be compensated for any known chemical interferences.

<b>Accuracy Criterion for 0.10-1 mg/l fuel marker solvent yellow 124 standard</b>				
Is 0.10-1 mg/l fuel marker solvent yellow 124 Accuracy Criterion Met?	<b>PASSED</b>			
Arithmetic Average (mg/l)	<b>0.50</b>			
Name of Standard Vendor	United Color Manufacturing			
Lot Identification Number of Standard	FMSY124101006	Concentration QC Check on ARV		
Accepted Reference Value (ARV) of standard (mg/l)	0.5	OK		
Difference between Arithmetic Average and ARV of Standard	<b>0.0011</b>			
Laboratory Test Identification Number	Date	Time	Test Result (mg/l)	Data Entry QC Check on Test Result
#####	1/13/2005	8:00 AM	0.499	OK
#####	1/13/2005	8:30 AM	0.489	OK
#####	1/13/2005	9:00 AM	0.498	OK
#####	1/13/2005	9:30 AM	0.500	OK
#####	1/13/2005	10:00 AM	0.510	OK
#####	1/13/2005	10:30 AM	0.520	OK
#####	1/13/2005	11:00 AM	0.488	OK
#####	1/13/2005	11:30 AM	0.495	OK
#####	1/13/2005	12:00 PM	0.511	OK
#####	1/13/2005	12:30 PM	0.501	OK

**4 to 10 milligrams per liter Accuracy Criterion** - the arithmetic average of a continuous series of at least 10 tests performed on a commercially available fuel marker solvent yellow 124 standard in the range of 4 to 10 milligrams per liter shall not differ from the accepted reference value (ARV) of that standard by more than 0.05 milligrams per liter. Individual test results shall be compensated for any known chemical interferences.

<b>Accuracy Criterion for 4-10 mg/l fuel marker solvent yellow 124 standard</b>				
Is 4-10 mg/l fuel marker solvent yellow 124 Accuracy Criterion Met?	<b>PASSED</b>			
Arithmetic Average (ppm)	<b>8.02</b>			
Vendor Name of Standard	United Color Manufacturing			
Lot Identification Number of Standard	FMSY124101008	Concentration QC Check on ARV		
Accepted Reference Value (ARV) of Standard (mg/l)	8	OK		
Difference between Arithmetic Average and ARV of Standard	<b>0.0153</b>			
Laboratory Test Identification Number	Date	Time	Test Result (mg/l)	Data Entry QC Check on Test Result
#####	1/14/2005	8:00 AM	7.950	OK
#####	1/14/2005	8:30 AM	7.957	OK
#####	1/14/2005	9:00 AM	7.888	OK
#####	1/14/2005	9:30 AM	8.002	OK
#####	1/14/2005	10:00 AM	8.004	OK
#####	1/14/2005	10:30 AM	8.123	OK
#####	1/14/2005	11:00 AM	8.200	OK
#####	1/14/2005	11:30 AM	8.005	OK
#####	1/14/2005	12:00 PM	8.101	OK
#####	1/14/2005	12:30 PM	7.923	OK