

## Reformulated Gasoline, Anti-Dumping, Gasoline Benzene, and Gasoline Sulfur Batch Report (RFG0303): Instructions for Completing

### Who must report

- Any refiner or importer that produces or imports any reformulated gasoline (RFG), RBOB, conventional gasoline, or CBOB (collectively referred to as “gasoline”) shall submit reports to EPA for each refinery at which such gasoline was produced and for all such gasoline imported by each importer. A separate batch report must be submitted for each batch of gasoline produced or imported during the averaging period.

### Reporting requirements

- Monthly compositing vs batch samples** – Refiners and importers may report certain parameter values using monthly composite testing while other parameters must be reported using batch by batch sampling. 40 CFR sections 80.65, 80.75, 80.105, 80.1347, and 80.1630 provide key requirements and reporting information (available at: [http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&sid=35945753f63f210281462aa6a1355847&tpl=/ecfrbrowse/Title40/40cfr80\\_main\\_02.tpl](http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&sid=35945753f63f210281462aa6a1355847&tpl=/ecfrbrowse/Title40/40cfr80_main_02.tpl)).
- Required fields and NA values** – Certain report fields or parameters may be specific to select product types. If a report field does not apply to the reported batch, enter the value “NA”. Do not leave the field blank.

### Reporting deadlines for refiners and importers

- RFG or RBOB** - Refiners or importers shall report on all reformulated gasoline or RBOB batches produced or imported during the following time periods:

Production Calendar Quarter	Time Period Covered	Quarterly Report Deadline
Quarter 1	January 1 – March 31	June 1
Quarter 2	April 1 – June 30	September 1
Quarter 3	July 1 – September 30	December 1
Quarter 4	October 1 – December 31	March 31

- Conventional Gasoline or CBOB** - Refiners or importers shall report on all conventional gasoline or CBOB batches produced or imported by March 31st each year for the prior calendar year averaging period.

### Reports submitted by independent laboratories

- For each compliance year beginning with the 2014 compliance year, a single annual report for calendar year January through December may be submitted by the following March 31.

### How to submit reports

- EPA maintains report templates, electronic submission procedures and additional support options at <http://www.epa.gov/otaq/fuels/reporting/cdx.htm>.

**Gasoline Sulfur Reporting under Tier 3**  
**(Including Batches of Gasoline Containing Ethanol)**

The Tier 3 gasoline sulfur rule established certain additional requirements for determining sulfur in batches of gasoline (particularly gasoline containing ethanol), which are being implemented in new field 56 of this form. There are no changes to this form regarding the requirements for reporting the sulfur content of batches of gasoline containing ethanol under the RFG and anti-dumping programs in field 23.

**Field 23 RFG and Anti-dumping Sulfur**

Refiners and importers should continue to follow the existing reporting requirements for the sulfur content of gasoline under the RFG and anti-dumping standards for field 23.

For a batch of ethanol blended with RBOB, report the sulfur test result from the hand blend of RBOB and ethanol if the refiner or importer meets oversight requirements in 80.69(a)).

For a batch of ethanol blended with CG or CBOB (an "EE" batch), report the sulfur content of the ethanol if the refiner or importer meets oversight requirements in 80.101(d)(4)(ii)) and report the CG or CBOB as a separate batch. Per 80.1603(d)(1)(ii), report either the refiner or importer sulfur test result for the ethanol, or 5 ppm (do not report assumed value of 0 ppm).

For CG/CBOB batches which are composited, report the sulfur test result for the composite batch.

**Field 56 Tier 3 Gasoline Sulfur**

The following instructions explain how to report sulfur for compliance with the Tier 3 requirements in 40 CFR 80, Subpart O.

Under the Tier 3 rule, downstream ethanol may be included in annual average sulfur compliance calculations if certain conditions are met, but may not be included to determine compliance with the per gallon sulfur cap.

A) RFG batches containing ethanol (refiner or importer must meet oversight requirements in 80.69(a))

In addition to reporting the sulfur content for RFG hand blends in field 23, the refiner or importer is also required to report a calculated sulfur content for RBOB/ethanol blends in field 56.

- 1) Measure sulfur in each batch of neat RBOB (this value will not be reported to EPA).
- 2) Measure sulfur in each batch of denatured ethanol (refiner or importer must sample and test ethanol that was actually blended with their RBOB), or assume ethanol contains 5 ppm sulfur per 80.1603(d)(1)(ii)(B)).
- 3) Calculate volume-weighted sulfur of RBOB/ethanol blend (see example below), and report calculated sulfur in field 56 (Tier 3 compliance sulfur).

Example: Calculate Tier 3 sulfur for RFG batch containing 90% RBOB and 10% ethanol

Test results	
RBOB sulfur	8 ppm

Denatured ethanol sulfur 2 ppm  
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Tier 3 calculated sulfur =  $0.9 * 8 + 0.1 * 2 =$  7.40 ppm [round to 7 ppm, and report in field 56]

B) CG/CBOB batches and ethanol batches blended into CG/CBOB (refiner or importer must meet oversight requirements in 80.101(d)(4)(ii))

- 1) Measure sulfur in each batch of neat CG or CBOB (same as antidumping).
- 2) Measure sulfur in each batch of denatured ethanol (refiner or importer must sample and test ethanol that was actually blended with their CG or CBOB), or assume ethanol contains 5 ppm sulfur per 80.1603(d)(1)(ii)(B).
- 3) Report sulfur separately for each batch of neat CG/CBOB and neat ethanol (CG-blended ethanol is reported as EE batches). The reported sulfur for the neat CG/CBOB batch in field 56 will be the same as that reported in field 23.

C) CG/CBOB batches which are composited

Refiners who composite batches of CG and CBOB for antidumping compliance purposes are required to report the volume and sulfur content of each sub-batch on form GSF0401 following the same procedures set forth in Paragraph B(1)-(3), above. Report the sulfur test result for the composite batch in field 23, do not report the composite test result in field 56. In field 56 report the volume-weighted sulfur content of all the sub-batches contained in a composite batch, using the sub-batch volumes and sulfur contents reported on the GSF0401 form.

### Field Instructions

Field No.	Field Name	Units	Field Formats, Codes & Special Instructions
1	Report Form ID		<b>AAAAAA</b> ; <i>Character</i> . Enter <b>RFG0302</b>
2	Report Type		<b>A</b> ; <i>Character</i> . Specify if the data submitted in this report is original or if it is being resubmitted. Submit only one original report; any corrections or updates should be marked as a resubmission. <b>O</b> = Original <b>R</b> = Resubmission
3	CBI		<b>A</b> ; <i>Character</i> . Specify if the data contained within the report is claimed as Confidential Business Information (CBI) under 40 CFR Part 2, subpart B: <b>Y</b> = Confidential Business Information <b>N</b> = Non-Confidential Business Information
4	Report Date		<b>MM/DD/YYYY</b> ; <i>Character</i> . Enter the date the original or resubmitted report is created.
5	Averaging/Compliance Period		<b>YYYY</b> ; <i>Character</i> . Enter the averaging/compliance year the report covers.
6	Reporter ID		<b>AAAA</b> ; <i>Character</i> . Enter the EPA-assigned four-character ID of the submitter. This may be the company itself or a third party, such as an independent lab.
7	Company ID		<b>AAAA</b> ; <i>Character</i> . Enter the EPA assigned four-character ID for the refiner or importer that produced or imported the batch of gasoline.
8	Facility ID		<b>AAAAA</b> ; <i>Character</i> . Enter EPA-assigned five-character ID for the facility. Include leading zeros as needed.
9	Batch Number		<b>AAAAAA</b> ; <i>Character</i> . The batch number assigned by the Refiner/Importer identifying the gasoline batch this report describes. This six digit batch number must form a unique identifier when combined with company ID, facility and year (e.g., 4321-54321-14-000001, 4321-54321-14-000002, etc.), as described in 40 CFR 80.65(d)(3). Please include leading zeros where applicable.

Field No.	Field Name	Units	Field Formats, Codes & Special Instructions
10	Butane or Pentane Batch Number		<p><b>AAAA-AAAA-YY-AAAAAA</b>; <i>Character</i>. The butane or pentane assigned batch number identifying the butane or pentane.</p> <p><i>For Pentane Only</i> - The first four digits are the pentane production company's OTAQ Registration ID number, followed by the five digit OTAQ Registration facility ID, year produced, and then the six-digit batch number.</p> <p><i>For Butane Only</i> - Enter '9999-99999' to represent the butane supplier production company ID and facility ID, followed by the actual year produced, and then the six-digit batch number</p> <p>If the product type does not include pentane or butane, enter "NA".</p>
11	Volume Type		<p><b>AAA</b>; <i>Character</i>. Enter the one appropriate volume type code from the following list. There are two cases where it is acceptable to report a negative batch volume if the batch is either Previously Certified Gasoline (PCG) or if the batch was previously reported and has been subsequently exported (EXP).</p> <p><b>POS</b> = Any positive batch volume  <b>PCG</b> = Previously Certified Gasoline – negative volume  <b>EXP</b> = Exported Batch – negative volume</p>
12	Batch Volume	Gallons	<b>± 999999999</b> ; <i>Number</i> . Production volume of the reported batch of gasoline.
13	Butane or Pentane Batch Volume	Gallons	<b>999999999</b> ; <i>Number</i> . If butane or pentane is blended with the production batch volume, report only the volume of the butane or pentane BEFORE blending with the production batch volume. If the batch does not include butane or pentane, report "NA".
14	Production Date		<b>MM/DD/YYYY</b> ; <i>Character</i> . Date the reported batch was produced or imported.
15	Date PCG Batch Received		<b>MM/DD/YYY</b> ; <i>Character</i> . If the batch volume type is PCG, enter the date the batch was received. If the volume type is not PCG, enter "NA".

Field No.	Field Name	Units	Field Formats, Codes & Special Instructions
16	Product Type		<p><b>AA</b>; <i>Character</i>. Enter the one appropriate product description code from the following list.</p> <p>For reformulated gasoline:</p> <p><b>RG</b> = Reformulated Gas  <b>RO</b> = RBOB any oxygenate  <b>RE</b> = RBOB ethers only  <b>RS</b> = RBOB Refiner Specified  <b>BC</b> = commercial grade butane blended with RFG/RBOB  <b>BN</b> = non-commercial grade butane blended with RFG/RBOB  <b>PC</b> = commercial grade pentane blended with RFG/RBOB  <b>PN</b> = non-commercial grade pentane blended with RFG/RBOB</p> <p>For conventional gasoline:</p> <p><b>CG</b> = Conventional Gasoline  <b>OB</b> = Conventional Gasoline (Oxygen Backout)  <b>CB</b> = Conventional Gasoline Blendstock for Oxygenate Blending (CBOB) or blendstock which becomes conventional gasoline solely upon addition of oxygenate  <b>EE</b> = Conventional Blendstock (EEP Report)  <b>OE</b> = Both OB &amp; EE  <b>GT</b> = Gasoline Treated as Blendstock (GTAB)  <b>BX</b> = commercial grade butane blended with CG  <b>BY</b> = non-commercial grade butane blended with CG  <b>PX</b> = commercial grade pentane blended with CG  <b>PY</b> = non-commercial grade pentane blended with CG</p>
17	Batch Grade		<p><b>AA</b>; <i>Character</i>. Enter the one appropriate batch grade code from the following list.</p> <p><b>RG</b> = Regular  <b>MG</b> = Mid Grade  <b>PG</b> = Premium  <b>MX</b> = Mix of Grades</p>
18	Lab Waiver		<p><b>A</b>; <i>Character</i>. For RFG or RBOB only. Indicate whether or not the batch was produced at a facility that has been waived from independent lab testing.</p> <p><b>Y</b> = Yes  <b>N</b> = No</p>
19	Independent Lab Analysis Requirement		<p><b>A</b>; <i>Character</i>. For RFG or RBOB only. Indicate whether or not the batch was selected for independent lab analysis under 80.65(f)(1).</p> <p><b>Y</b> = Yes  <b>N</b> = No</p>

Field No.	Field Name	Units	Field Formats, Codes & Special Instructions
20	RFG VOC Control / CG RVP Standard		<b>AA; Character.</b> <ul style="list-style-type: none"> <li>For VOC-controlled RFG or RBOB, report the appropriate region; if not VOC-controlled indicate this.</li> <li>For CG, report "VN" if the batch was produced for use during winter. Indicate "V1" If the batch was produced for use in a 7.8 psi area, or "V2" if it was produced for use in a 9.0 psi area.</li> </ul> <p> VN = Not VOC Controlled (or CG Winter)  V1 = RFG VOC Region 1 (or CG 7.8 PSI)  V2 = RFG VOC Region 2 (or CG 9.0 PSI)  V3 = RFG Adjusted VOC  V4 = Federal SIP </p>
21	Oxygen	weight %	<b>99.99; Number.</b>
22	Oxygen Parameter Test Method		Identify test method used to measure parameter. If ASTM, list the ASTM test method title. Or if citing an EPA approved test method under PBMS, provide the descriptive title name.
23	Sulfur	ppm	<b>99; Number.</b>
24	Sulfur Parameter Test Method		<ul style="list-style-type: none"> <li>Identify test method used to measure parameter. If ASTM, list the ASTM test method title. Or if citing an EPA approved test method under PBMS, provide the descriptive title name.</li> <li>If assuming 5 ppm per 80.1603(d)(1)(ii)(B), please state "assumed".</li> </ul>
25	Aromatics	volume %	<b>99.9; Number.</b>
26	Aromatics Parameter Test Method		Identify test method used to measure parameter. If ASTM, list the ASTM test method title. Or if citing an EPA approved test method under PBMS, provide the descriptive title name.
27	Olefins	volume %	<b>99.9; Number.</b>
28	Olefins Parameter Test Method		Identify test method used to measure parameter. If ASTM, list the ASTM test method title. Or if citing an EPA approved test method under PBMS, provide the descriptive title name.
29	Benzene	volume %	<b>9.99; Number.</b>
30	Benzene Parameter Test Method		Identify test method used to measure parameter. If ASTM, list the ASTM test method title Or if citing an EPA approved test method under PBMS, provide the descriptive title name.
31	Methanol	volume %	<b>999.99; Number.</b>

Field No.	Field Name	Units	Field Formats, Codes & Special Instructions
32	Methanol Parameter Test Method		Identify test method used to measure parameter. If ASTM, list the ASTM test method title. Or if citing an EPA approved test method under PBMS, provide the descriptive title name.
33	MTBE	volume %	<b>999.99; Number.</b>
34	MTBE Parameter Test Method		Identify test method used to measure parameter. If ASTM, list the ASTM test method title. Or if citing an EPA approved test method under PBMS, provide the descriptive title name.
35	Ethanol	volume %	<b>999.99; Number.</b>
36	Ethanol Parameter Test Method		Identify test method used to measure parameter. If ASTM, list the ASTM test method title. Or if citing an EPA approved test method under PBMS, provide the descriptive title name.
37	ETBE	volume %	<b>999.99; Number.</b>
38	ETBE Parameter Test Method		Identify test method used to measure parameter. If ASTM, list the ASTM test method title. Or if citing an EPA approved test method under PBMS, provide the descriptive title name.
39	TAME	volume %	<b>999.99; Number.</b>
40	TAME Parameter Test Method		Identify test method used to measure parameter. If ASTM, list the ASTM test method title. Or if citing an EPA approved test method under PBMS, provide the descriptive title name.
41	t-Butanol	volume %	<b>999.99; Number.</b>
42	t-Butanol Parameter Test Method		Identify test method used to measure parameter. If ASTM, list the ASTM test method title. Or if citing an EPA approved test method under PBMS, provide the descriptive title name.
43	RVP	psi	<b>99.99; Number.</b>
44	RVP Parameter Test Method		Identify test method used to measure parameter. If ASTM, list the ASTM test method title. Or if citing an EPA approved test method under PBMS, provide the descriptive title name.
45	T50	Fahrenheit	<b>999.9; Number.</b> Enter the temperature in fahrenheit
46	T50 Parameter Test Method		Identify test method used to measure parameter. If ASTM, list the ASTM test method title. Or if citing an EPA approved test method under PBMS, provide the descriptive title name.
47	T90	Fahrenheit	<b>999.9; Number.</b> Enter the temperature in fahrenheit
48	T90 Parameter Test Method		Identify test method used to measure parameter. If ASTM, list the ASTM test method title. Or if citing an EPA approved test method under PBMS, provide the descriptive title name.
49	E200	volume %	<b>999.9; Number.</b>



Field No.	Field Name	Units	Field Formats, Codes & Special Instructions
50	E200 Parameter Test Method		Identify test method used to measure parameter. If ASTM, list the ASTM test method title. Or if citing an EPA approved test method under PBMS, provide the descriptive title name.
51	E300	volume %	<b>999.9; Number.</b>
52	E300 Parameter Test Method		Identify test method used to measure parameter. If ASTM, list the ASTM test method title. Or if citing an EPA approved test method under PBMS, provide the descriptive title name.
53	Toxics		<b>± 99.9; Number. Report for Small Refiners and Small Volume Refineries on RFG and RBOB batches only.</b> Percent reduction from baseline.
54	VOCs		<b>± 99.9; Number. Report for VOC-controlled RFG and RBOB only.</b> Percent reduction from baseline.
55	Exhaust Toxics Emissions		<b>± 999.99; Number. Report for Small Refiners and Small Volume Refineries on conventional gasoline and CBOB batches only.</b>
56	Tier 3 batch sulfur	ppm	<b>99; Number.</b> <ul style="list-style-type: none"> <li>• For a batch of RFG containing ethanol <u>where the refiner or importer meets the oversight requirements in 80.69(a)</u>, report the batch sulfur calculated under 80.1603(d)(1).</li> <li>• For a batch of ethanol blended with CG or CBOB <u>where the refiner or importer meets the oversight requirements in 80.101(d)(4)(ii)</u> (typically an “EE” batch), report either the tested sulfur of the ethanol, or 5 ppm per 80.1603(d)(1)(ii)(B), and separately report the sulfur test result for the CG or CBOB batch (reported sulfur for CG/CBOB batch will be the same in fields 23 and 56).</li> <li>• For gasoline where the refiner or importer does not account for the addition of downstream ethanol, report the sulfur content of each batch (same as field 23).</li> <li>• If the refiner composites batches under the anti-dumping program, report the volume-weighted sulfur content of all the sub-batches contained in the composite batch, using the sub-batch volumes and sulfur contents reported on the GSF0401 form.</li> <li>• Small refiners and small volume refineries approved under subpart O enter “N/A” in this field, until they begin complying with subpart O (1/1/20 at the latest)</li> </ul>

#### Electronic Submission Sample Record:

RFG0302,O,Y,03/31/2015,2014,9999,9999,99999,123456,NA,POS,123456,NA,12/31/2014,NA,RG,RG,N,N,V1,99.00,ASTM D5599,10.00,ASTM D2622,26.4,ASTM D5769,11.9,ASTM D1319,0.62,ASTM

D3606,0.3,ASTM D5599,0,ASTM D4815,10.0,ASTM D4806,0,ASTM D4815,0,ASTM  
D4815,0.1,ASTM D4815,8.7,ASTM D5191,225,ASTM D86,350, ASTM D86,41.0, ASTM D86,83.0,  
ASTM D86,NA,NA,NA, 10.00

#### Paperwork Reduction Act Statement

The public reporting and recordkeeping burden for this collection of information is disclosed in the estimates of the individual report form instructions. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.