



Diablo Analytical, Inc.

A Technology and Development Company

EZReporter 4.0 Results Database Module

The optional Results Database Module allows you to capture results and save them in a local SQLite database. Results in the database can be searched by sample name and date range and can be batch re-processed for printing, exporting or trend plotting.

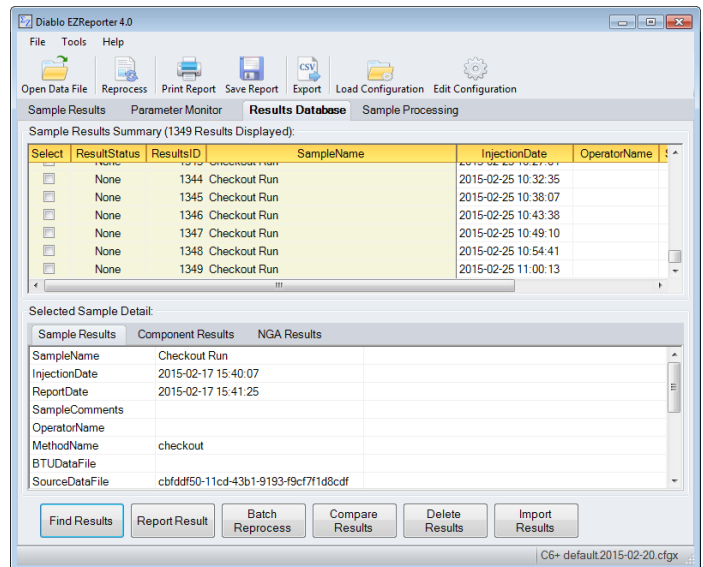
Results Database Features

- **Local “Zero Configuration” Database:** Sample results including sample information, individual component results, and calculated natural gas analysis (NGA) and natural gas liquids (NGL) results can be added automatically to a results database located on the local computer’s hard drive. Unlike traditional client-server databases, the results database requires no complex configuration by the end user.
- **Search for Results:** You can search the results database for historical results by Sample Name or Results ID. Results can be filtered further by Injection or Report Date and Results or Export Status.
- **Batch Processing:** You can batch reprocess multiple results from the database. Reprocessing options include printing reports, exporting results, and trend plotting results.
- **Statistical Analysis:** Statistics including average, standard deviation, %RSD, maximum, and minimum are calculated and displayed when performing sample name searches.
- **Compare Results:** A results comparison window can be used to compare the component normalized mole% values between two samples using either the GPA 2261 repeatability or reproducibility limits (or any other limits entered by the user).
- **Sample History Alarms:** You can create history alarms for important results based on the historical average and standard deviation of that result in a particular sample.
- **Track Result Status:** Each result in the database has a “Status” field that can be set to “None”, “Accept”, or “Reject” status. The status field can then be used in searches or batch reprocessing to filter which results are selected.
- **Import Results:** In addition to adding results to the database automatically when processed from one of the supported chromatography data systems, you can also import results into the database from a delimited text file.

Licensing

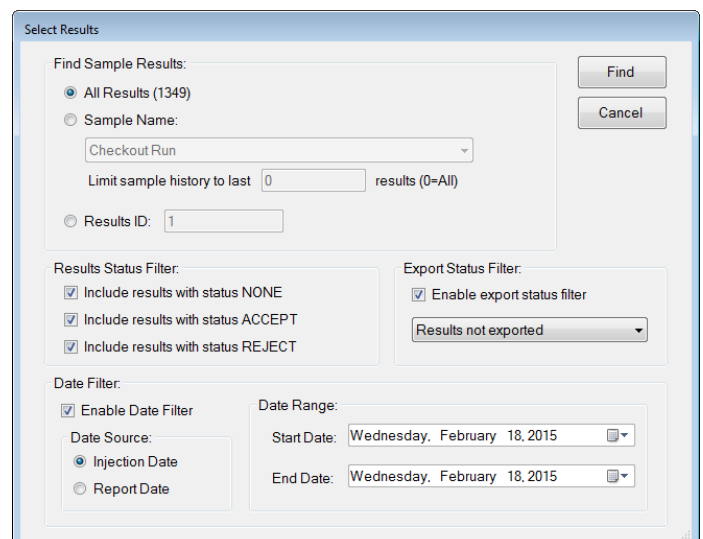
A license for the Results Database module can be added to any other EZReporter 4.0 software edition, including the Data Analysis Edition.

Results Database Window



Search for Results

You can search for results by Sample Name, Results ID, injection date or report date range, and other attributes.





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Compare Results

With the results database you can compare results with a known check standard or with another sample using the GPA2261-00, GPA 2261-13, or your own Repeatability and Reproducibility limits.

Compare Results						
Sample Information	Result 1	Result 2				
Results ID			1349			
Sample name	Check Standard	Checkout Run				
Injection Date	2015-02-25 11:00:13					
Component	Result 1 Amount	Result 2 Amount	Repeatability	Lower Limit	Upper Limit	Status
Helium	0	0	0.00	0.00	0.00	-
Hydrogen	0	0	0.00	0.00	0.00	-
Nitrogen	0	0	0.00	0.00	0.00	-
Oxygen	0	0	0.00	0.00	0.00	-
Methane	82.25	82.2054	0.03	82.22	82.28	Fail
Carbon Dioxide	0	0	0.00	0.00	0.00	-
Ethane	10	10.0251	0.03	9.97	10.03	Pass
Propane	4	4.01	0.01	3.99	4.01	Pass
i-Butane	1.5	1.5038	0.01	1.49	1.51	Pass
n-Butane	1.5	1.5038	0.01	1.49	1.51	Pass
i-Pentane	0.25	0.2506	0.01	0.24	0.26	Pass
n-Pentane	0.25	0.2506	0.01	0.24	0.26	Pass
Hexanes Plus	0.25	0.2507	0.01	0.24	0.26	Pass

Comparison Method: GPA 2261-00 GPA 2261-13
 Comparison Type: Repeatability (r) Reproducibility (R)

Set Standard Amounts

You can enter amounts for a calibration or check standard to use in the comparison with your sample results.

Standard Amounts	
Standard Description:	Check Standard
Standard Amounts:	
Component	Amount
Nitrogen	0
Oxygen	0
Methane	82.25
Carbon Dioxide	0
Ethane	10.0
Propane	4.0
i-Butane	1.5
n-Butane	1.5
i-Pentane	25
n-Pentane	25
Hexanes Plus	25
Total Amount: 100	

Comparison Report

You can print result comparison reports to document the sample comparisons.

Sample History Alarms

You can create history alarms for important results based on the historical average and standard deviation of that result in a particular sample.

Edit Parameter	
Select Parameter to Monitor:	Parameter: ComponentRaw (unnormalized) Amount
Component:	Methane
Options Alarms	
Alarm Control:	Alarm Type: Sample History Alarm Limits
<input checked="" type="checkbox"/> Enable High Alarm	<input checked="" type="checkbox"/> Enable Low Alarm
Average +/- Limit: 0	Limit to last 'n' results (0=All): 0
Limit Mode:	Result Status Filter:
<input type="radio"/> % Relative (Avg. +/- %Limit of Avg.)	<input checked="" type="checkbox"/> Status = 'None'
<input type="radio"/> Absolute (Avg. +/- Limit)	<input checked="" type="checkbox"/> Status = 'Accept'
<input checked="" type="radio"/> Std. Dev. (Avg. +/- Limit * Std. Dev.)	<input type="checkbox"/> Status = 'Reject'
<input type="radio"/> GPA 2261-00 Repeatability	
<input type="radio"/> GPA 2261-00 Reproducibility	
<input type="radio"/> GPA 2261-13 Repeatability	
<input type="radio"/> GPA 2261-13 Reproducibility	

Result Comparison Report

Sample Information

Sample Information	Result 1	Result 2
Results ID	1349	
Sample name	Check Standard	Checkout Run
Injection Date	2015-02-25 11:00:13	

Component Result Comparison

Component	Result 1 Amount	Result 2 Amount	Repeatability	Lower Limit	Upper Limit	Status
Helium	0	0	0.00	0.00	0.00	-
Hydrogen	0	0	0.00	0.00	0.00	-
Nitrogen	0	0	0.00	0.00	0.00	-
Oxygen	0	0	0.00	0.00	0.00	-
Methane	82.25	82.2054	0.03	82.22	82.28	Fail
Carbon Dioxide	0	0	0.00	0.00	0.00	-
Ethane	10	10.0251	0.03	9.97	10.03	Pass
Propane	4	4.01	0.01	3.99	4.01	Pass
i-Butane	1.5	1.5038	0.01	1.49	1.51	Pass
n-Butane	1.5	1.5038	0.01	1.49	1.51	Pass
i-Pentane	0.25	0.2506	0.01	0.24	0.26	Pass
n-Pentane	0.25	0.2506	0.01	0.24	0.26	Pass
Hexanes Plus	0.25	0.2507	0.01	0.24	0.26	Pass

Comparison Summary

Report Date	2015-03-02 11:03:03
Comparison Status	Fail
Comparison Method	GPA 2261-13
Comparison Type	Repeatability



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