

# ==== Shimadzu LabSolutions Analysis Report =====

Sample Name : DL V17 R8  
 Sample ID :  
 Data Filename : DL V17 R8\_20241004\_DL V17\_SFB\_B\_ST1\_0.8 mL\_45 min\_Start\_004.lcd  
 Method Filename : SFB\_B\_ST1\_0.8 mL\_45 min\_Start.lcm  
 Batch Filename : 20241004\_DL V17.lcb  
 Vial # : 3-7  
 Injection Volume : 10 uL  
 Date Acquired : 10/4/2024 2:01:35 PM  
 Date Processed : 10/4/2024 2:46:36 PM

Sample Type : Unknown  
 Acquired by : System Administrator  
 Processed by : System Administrator

---

## <Method>

### <<Header>>

Generated : 4/24/2024 3:47:23 PM  
 GeneratedBy : System Administrator  
 Modified : 10/4/2024 8:21:00 AM  
 ModifiedBy : System Administrator

### <<System Controller>>

Model : SCL-40  
 Event1 : Off  
 Event2 : Off  
 Sample Load Timing : Off

### <<Data Acquisition>>

LC Stop Time : 45.00 min  
 Detector A Name : Detector A  
 Detector A Sampling Frequency : 2 Hz  
 Detector A Start Time : 0.00 min  
 Detector A End Time : 45.00 min

### <<Pump>>

Mode : Isocratic flow  
 Pump A : LC-40D  
 Pump A Flow/Pressure : Flow  
 Pump System A Flow : 0.8000 mL/min  
 Pump System A Flow Slope : 20.00 min  
 Pump A PressMax : 90 bar  
 Pump A PressMin : 0 bar  
 Pump A Valve Model : Switching Valve  
 Pump A Valve : B  
 Pump A Compressibility Setting : On  
 Pump A Mobile Phase Settings : 0.45 /GPa

### <<Autosampler>>

Autosampler Model : SIL-40  
 Enable Autosampler : Use  
 Rinse Type : External only  
 Specify Plate : Off  
 Rinsing Volume : 500 uL  
 Cut Off Loop : Off  
 Specify Needle Stroke : Off  
 Rinsing Speed : 35 uL/sec  
 Sampling Speed : 5.0 uL/sec  
 Rinse Port R0 Purge Time : 2.0 min  
 Measuring Line Purge Time : 5.0 min  
 Rinse Mode : Before and after aspiration  
 Rinse Dip Time : 0 sec  
 Measuring Line Purge Volume : 100 uL  
 Air Gap Volume : Off  
 Rinse Port Liquid : R0

### <<Sample Pretreatment>>

Mode : Standard

### <<Oven>>

Oven Model : CTO-40C  
 Enable Oven : Use  
 Oven Temperature : 25 C  
 Maximum Temperature : 105 C

```
<<Detector A>>
Model                : RID-20A
Mode                 : Analytical
Polarity              : +
Use Cell Temp.       : Use
Cell Temp.           : 40.0 C
Response              : 1.5 sec
Intensity Unit        : Volt
Auxiliary Range       : 1.0E-3 RIU/V
Recorder Range        : 100.00 uRIU/FS
Synchronize with Auxiliary : Off
Purge Time           : 20 min
```

| Time  | Module         | Command | Value | Comment |
|-------|----------------|---------|-------|---------|
| 0.01  | RID-20A(DET.A) | Zero    |       |         |
| 45.00 | Controller     | Stop    |       |         |

|   |               |       |
|---|---------------|-------|
| Channel   | : Ch1         |       |
| Width   | : 5 sec       |       |
| Slope   | : 2000 uV/min |       |
| Drift   | : 0 uV/min    |       |
| T.DBL   | : 1000 min    |       |
| Max Slices  | : 0           |       |
| Peak Top Detection                                      | : Normal      |       |
| RT Compensation Mode                                    | : Fine        |       |
| Min.Area/Height is made effective in Manual Integration |               | : Off |
| Min.Area/Height   | : 1000 counts |       |
| Calculated by   | : Area        |       |
| Noise Calculation Settings                              | : Noise Data  | : C   |

|                            |                                   |
|----------------------------|-----------------------------------|
| Calculated by              | : Area                            |
| Noise Calculation Settings | : Noise Data                      |
|                            | : Calculation Method              |
|                            | : Range                           |
|                            | : Interval                        |
|                            | : Include the Peak Detected Range |
|                            | : Detection Limit Coefficient     |
|                            | : Quantitative Limit Coefficient  |
| Drift Calculation Settings | : 0.000 - 15.000 min              |
|                            | : Current Data                    |
|                            | : ASTM                            |
|                            | : Whole Range                     |
|                            | : 0.5 min                         |
|                            | : Off                             |
|                            | : 3.3                             |
|                            | : 10.0                            |

Channel : Ch1  
Time Program : None

Channel : Ch1  
Time Program : None

|                              |                |
|------------------------------|----------------|
| Window/Band                  | : Window       |
| Window                       | : 5.00 %       |
| Identification Method        | : Absolute     |
| Peak Selection               | : Closest Peak |
| Display not identified peaks | : Not display  |

|                         |                     |
|-------------------------|---------------------|
| Quantitative Method     | : External Standard |
| Calculated by           | : Area              |
| # of Calibration Levels | : 14                |
| Curve Fit Type          | : Linear            |
| Zero                    | : Not Forced        |
| Weighting Method        | : None              |
| X Axis of Calib. Curve  | : Conc.             |
| Units                   | : mol/L             |
| Format of Conc.         | : Decimals          |
| Format of Conc. Figure  | : 5                 |
| Group Type              | : Not Used          |

Check %Dev(Standard) : No  
 Check Accuracy[%](Standard) : No  
 Check %Dev(Control) : No  
 Check Accuracy[%](Control) : No  
 Check %Dev(Additive) : No  
 Check Accuracy[%](Additive) : No  
 Check %Dev(Unknown) : No  
 Check Accuracy[%](Unknown) : No  
 Check Quantitation Limit : No  
 Check Detect Limit : No

## &lt;&lt;Compound Table&gt;&gt;

## &lt;Detector A&gt;

ID# : 1  
 Name : Methanol  
 Type : Target  
 Channel : Ch1  
 Retention Time : 14.400 min  
 Retention Index : 0  
 Concentration : [1]=3.016738 [2]=1.049395 [3]=0.4943277  
                           [4]=0.2893701 [5]=0.1127578 [6]=0.06136267  
                           [7]=0.01619725 [8]=3.016738 [9]=1.049395  
                           [10]=0.4943277 [11]=0.2893701 [12]=0.1127578  
                           [13]=0.06136267 [14]=0.01619725  
 Peak Selection : Default(Closest Peak)  
 Calculated by : Default(Area)  
 Curve Fit Type : Default(Linear)  
 Zero : Default(Not Forced)  
 Weight : Default(None)  
 Window/Band : Default(Window)  
 Spiked : 0.000  
 1st Coefficient : 4.720087e+005  
 Intersection : 1.693726e+003  
 Correction Factor : 1.000000  
 Standard concentration factor : 1.000000

ID# : 2  
 Name : Glycerin  
 Type : Target  
 Channel : Ch1  
 Retention Time : 10.000 min  
 Retention Index : 0  
 Concentration : [1]=2.958375 [2]=1.078646 [3]=0.5353454  
                           [4]=0.3066948 [5]=0.114594 [6]=0.05901699  
                           [7]=0.0117174 [8]=2.958375 [9]=1.078646  
                           [10]=0.5353454 [11]=0.3066948 [12]=0.114594  
                           [13]=0.05901699 [14]=0.0117174  
 Peak Selection : Default(Closest Peak)  
 Calculated by : Default(Area)  
 Curve Fit Type : Default(Linear)  
 Zero : Default(Not Forced)  
 Weight : Default(None)  
 Window/Band : Default(Window)  
 Spiked : 0.000  
 1st Coefficient : 7.326784e+006  
 Intersection : 2.573900e+005  
 Correction Factor : 1.000000  
 Standard concentration factor : 1.000000

ID# : 3  
 Name : n-Propanol  
 Type : Target  
 Channel : Ch1  
 Retention Time : 20.000 min  
 Retention Index : 0  
 Concentration : [1]=3.02526 [2]=1.092217 [3]=0.5139845  
                           [4]=0.3105323 [5]=0.09785473 [6]=0.04497364  
                           [7]=0.01087275 [8]=3.02526 [9]=1.092217  
                           [10]=0.5139845 [11]=0.3105323 [12]=0.09785473  
                           [13]=0.04497364 [14]=0.01087275  
 Peak Selection : Default(Closest Peak)  
 Calculated by : Default(Area)  
 Curve Fit Type : Default(Linear)  
 Zero : Default(Not Forced)  
 Weight : Default(None)  
 Window/Band : Default(Window)  
 Spiked : 0.000  
 1st Coefficient : 3.955755e+006  
 Intersection : -2.585461e+004

Correction Factor : 1.000000  
Standard concentration factor : 1.000000

ID# : 4  
Name : 1,2 Propandiol  
Type : Target  
Channel : Ch1  
Retention Time : 12.400 min  
Retention Index : 0  
Concentration : [1]=2.977546 [2]=1.016412 [3]=0.5030017  
[4]=0.3027638 [5]=0.1023958 [6]=0.04970167  
[7]=0.01157971 [8]=2.977546 [9]=1.016412  
[10]=0.5030017 [11]=0.3027638 [12]=0.1023958  
[13]=0.04970167 [14]=0.01157971

Peak Selection : Default(Closest Peak)  
Calculated by : Default(Area)  
Curve Fit Type : Default(Linear)  
Zero : Default(Not Forced)  
Weight : Default(None)  
Window/Band : Default(Window)  
Spiked : 0.000  
1st Coefficient : 5.771075e+006  
Intersection : 6.007717e+004  
Correction Factor : 1.000000  
Standard concentration factor : 1.000000

ID# : 5  
Name : 1,3 Propandiol  
Type : Target  
Channel : Ch1  
Retention Time : 13.000 min  
Retention Index : 0  
Concentration : [1]=2.976375 [2]=0.9968958 [3]=0.4990984  
[4]=0.2900131 [5]=0.10734 [6]=0.04944145  
[7]=0.0100184 [8]=2.976375 [9]=0.9968958  
[10]=0.4990984 [11]=0.2900131 [12]=0.10734  
[13]=0.04944145 [14]=0.0100184

Peak Selection : Default(Closest Peak)  
Calculated by : Default(Area)  
Curve Fit Type : Default(Linear)  
Zero : Default(Not Forced)  
Weight : Default(None)  
Window/Band : Default(Window)  
Spiked : 0.000  
1st Coefficient : 5.532080e+006  
Intersection : 6.014722e+004  
Correction Factor : 1.000000  
Standard concentration factor : 1.000000

ID# : 6  
Name : iso-Propanol  
Type : Target  
Channel : Ch1  
Retention Time : 16.825 min  
Retention Index : 0  
Concentration : [1]=3.03666 [2]=1.003405 [3]=0.5418687  
[4]=0.3101858 [5]=0.1067771 [6]=0.04972951  
[7]=0.01397083 [8]=3.03666 [9]=1.003405  
[10]=0.5418687 [11]=0.3101858 [12]=0.1067771  
[13]=0.04972951 [14]=0.01397083

Peak Selection : Default(Closest Peak)  
Calculated by : Default(Area)  
Curve Fit Type : Default(Linear)  
Zero : Default(Not Forced)  
Weight : Default(None)  
Window/Band : Default(Window)  
Spiked : 0.000  
1st Coefficient : 3.797216e+006  
Intersection : -2.284739e+004  
Correction Factor : 1.000000  
Standard concentration factor : 1.000000

ID# : 7  
Name : Hydroxyacetone  
Type : Target  
Channel : Ch1  
Retention Time : 13.300 min  
Retention Index : 0  
Concentration : [1]=2.855514 [2]=0.9609004 [3]=0.4875675

|  |                 |                  |                |
|--|-----------------|------------------|----------------|
|  | [4]=0.3072624   | [5]=0.1038742    | [6]=0.04860286 |
|  | [7]=0.009361501 | [8]=2.855514     | [9]=0.9609004  |
|  | [10]=0.4875675  | [11]=0.3072624   | [12]=0.1038742 |
|  | [13]=0.04860286 | [14]=0.009361501 |                |

Peak Selection : Default(Closest Peak)  
 Calculated by : Default(Area)  
 Curve Fit Type : Default(Linear)  
 Zero : Default(Not Forced)  
 Weight : Default(None)  
 Window/Band : Default(Window)  
 Spiked : 0.000  
 1st Coefficient : 4.865699e+006  
 Intersection : 5.855022e+004  
 Correction Factor : 1.000000  
 Standard concentration factor : 1.000000

ID# : 8  
 Name : Ethylenglykol  
 Type : Target  
 Channel : Ch1  
 Retention Time : 12.200 min  
 Retention Index : 0  
 Concentration : [1]=2.933794 [2]=1.030353 [3]=0.4898163  
                   [4]=0.3033639 [5]=0.09840986 [6]=0.059971  
                   [7]=0.01068632 [8]=2.933794 [9]=1.030353  
                   [10]=0.4898163 [11]=0.3033639 [12]=0.09840986  
                   [13]=0.059971 [14]=0.01068632

Peak Selection : Default(Closest Peak)  
 Calculated by : Default(Area)  
 Curve Fit Type : Default(Linear)  
 Zero : Default(Not Forced)  
 Weight : Default(None)  
 Window/Band : Default(Window)  
 Spiked : 0.000  
 1st Coefficient : 4.284813e+006  
 Intersection : 4.449721e+003  
 Correction Factor : 1.000000  
 Standard concentration factor : 1.000000

ID# : 9  
 Name : Ethanol  
 Type : Target  
 Channel : Ch1  
 Retention Time : 16.000 min  
 Retention Index : 0  
 Concentration : [1]=3.010594 [2]=1.02339 [3]=0.5257763  
                   [4]=0.2939754 [5]=0.0961865 [6]=0.04960971  
                   [7]=0.01299818 [8]=3.010594 [9]=1.02339  
                   [10]=0.5257763 [11]=0.2939754 [12]=0.0961865  
                   [13]=0.04960971 [14]=0.01299818

Peak Selection : Default(Closest Peak)  
 Calculated by : Default(Area)  
 Curve Fit Type : Default(Linear)  
 Zero : Default(Not Forced)  
 Weight : Default(None)  
 Window/Band : Default(Window)  
 Spiked : 0.000  
 1st Coefficient : 2.109543e+006  
 Intersection : -9.590194e+003  
 Correction Factor : 1.000000  
 Standard concentration factor : 1.000000

ID# : 10  
 Name : Propionsäure  
 Type : Target  
 Channel : Ch1  
 Retention Time : 13.600 min  
 Retention Index : 0  
 Concentration : [1]=2.962704 [2]=0.9915078 [3]=0.5019324  
                   [4]=0.3085198 [5]=0.1036906 [6]=0.04835313  
                   [7]=0.01168534 [8]=2.962704 [9]=0.9915078  
                   [10]=0.5019324 [11]=0.3085198 [12]=0.1036906  
                   [13]=0.04835313 [14]=0.01168534

Peak Selection : Default(Closest Peak)  
 Calculated by : Default(Area)  
 Curve Fit Type : Default(Linear)  
 Zero : Default(Not Forced)  
 Weight : Default(None)  
 Window/Band : Default(Window)

Spiked : 0.000  
 1st Coefficient : 4.601450e+006  
 Intersection : -1.609005e+003  
 Correction Factor : 1.000000  
 Standard concentration factor : 1.000000

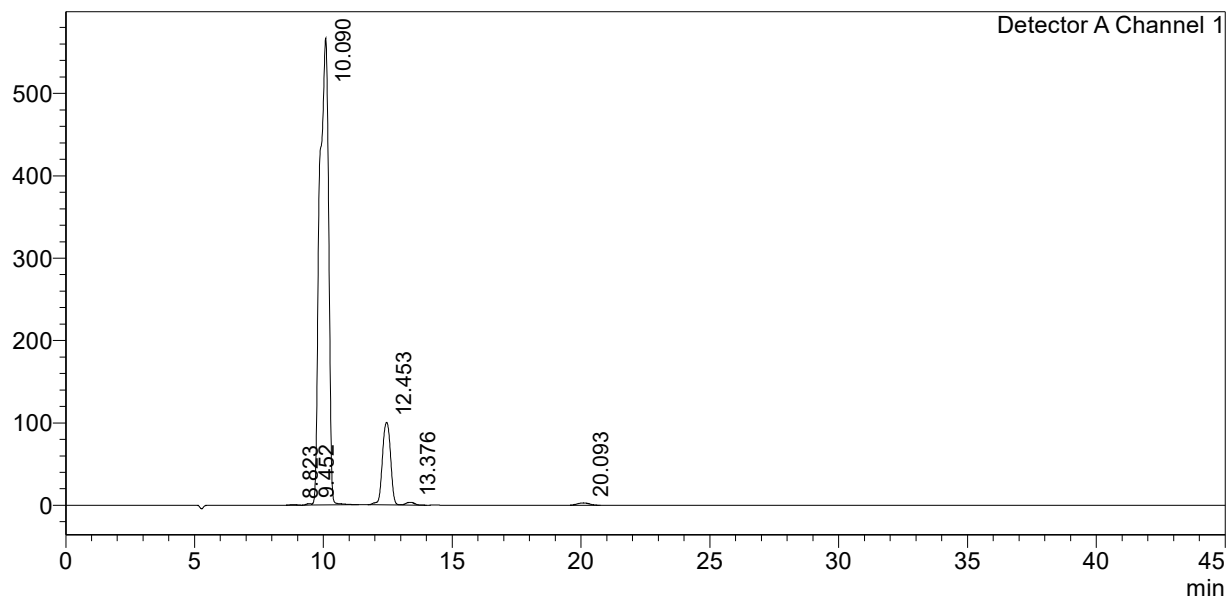
## &lt;&lt;Column Performance&gt;&gt;

## &lt;Detector A&gt;

Calculation Method : USP  
 Unretained Peak Time : Time at 1st Peak  
 Column Length : 150 mm  
 Calculate Identified Peaks Only : Off  
 Calculation of Relative Retention Time : Off

## &lt;Chromatogram&gt;

mV



## &lt;Peak Table&gt;

Detector A Channel 1

| Peak# | Ret. Time | Area     | Height | Conc. | Unit  | Mark | Name           |
|-------|-----------|----------|--------|-------|-------|------|----------------|
| 1     | 8.823     | 13232    | 769    | 0.000 |       |      |                |
| 2     | 9.452     | 23756    | 1796   | 0.000 |       |      |                |
| 3     | 10.090    | 13739762 | 566879 | 1.840 | mol/L | V    | Glycerin       |
| 4     | 12.453    | 2216121  | 100261 | 0.374 | mol/L |      | 1,2 Propandiol |
| 5     | 13.376    | 77334    | 3345   | 0.004 | mol/L | V    | Hydroxyacetone |
| 6     | 20.093    | 88806    | 2807   | 0.029 | mol/L |      | n-Propanol     |
| Total |           | 16159011 | 675857 |       |       |      |                |