

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

Sample Name	: HD_GL_131024_N_800_7		
Sample ID	:		
Data Filename	: HD_Gly_131024_N_800_7.lcd		
Method Filename	: SFB_B_ST1_0.8 mL_45 min_Start.lcm		
Batch Filename	: 20241013_DN_HD_GL_N_800.lcb		
Vial #	: 1-32	Sample Type	: Unknown
Injection Volume	: 10 uL		
Date Acquired	: 10/13/2024 10:28:43 PM	Acquired by	: System Administrator
Date Processed	: 10/13/2024 11:13:43 PM	Processed by	: System Administrator

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## <Method>

### <<Header>>

Generated	: 4/24/2024 3:47:23 PM
GeneratedBy	: System Administrator
Modified	: 10/13/2024 3:52:17 PM
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
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### <<Oven>>

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

Ready Check	: On
Wait Time	: 5 min
Ready Range	: 1.0 C
Fan Speed	: Auto
Cooler Mode	: Auto
Valve 1/L	: FCV-0206
Valve 1/L Position	: 1: Column1

&lt;&lt;Detector A&gt;&gt;

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

<<LC Time Program>>

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

## <<Peak Integration>>

<Detector A>

```

Detector Type      : 1
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 : Current Data
                               Calculation Method : ASTM
                               Range : Whole Range
                               Interval : 0.5 min
                               Include the Peak Detected Range : Off
                               Detection Limit Coefficient : 3.3
                               Quantitative Limit Coefficient : 10.0
Drift Calculation Settings : 0.000 - 15.000 min

```

&lt;&lt;Integration Time Program(Method)&gt;&gt;

<Detector A>

Channel : Ch1  
Time Program : None

&lt;&lt;Integration Time Program(Data)&gt;&gt;

<Detector A>

Channel : Ch1  
Time Program : None

<<Identification>>

<Detector A>

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

<<Quantitative>>

<Detector A>

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

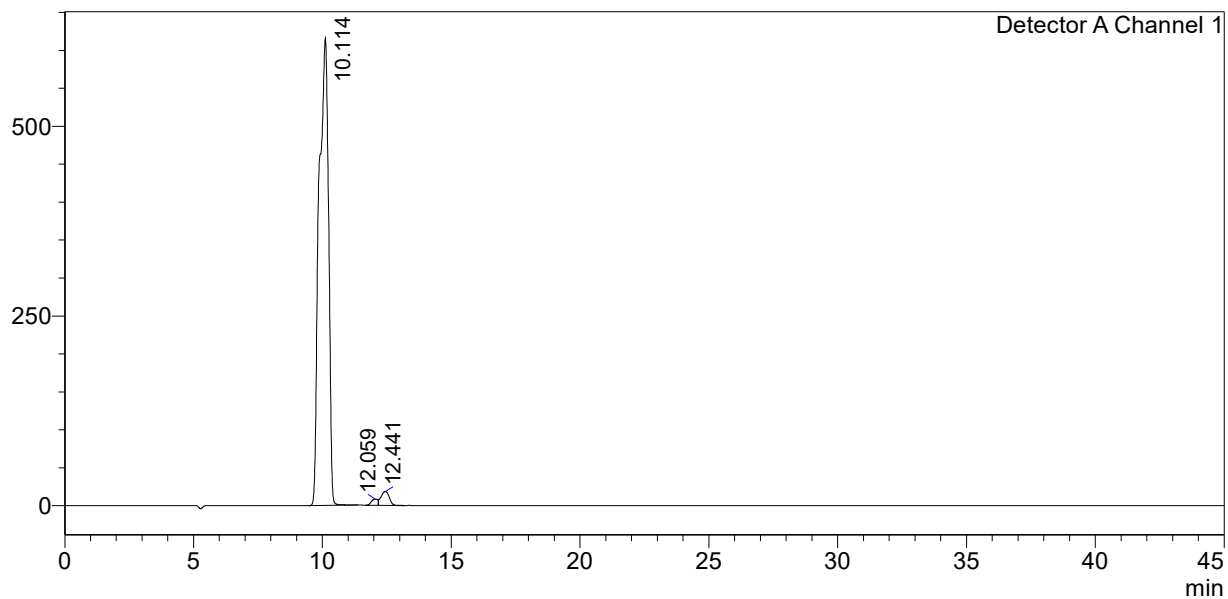
## &lt;&lt;Column Performance&gt;&gt;

## &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	10.114	15801397	615856	2.122	mol/L		Glycerin
2	12.059	138607	8152	0.031	mol/L		Ethylenglykol
3	12.441	409053	18295	0.060	mol/L	V	1,2 Propandiol
Total		16349057	642303				