

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

Sample Name : HD\_Gly\_131024\_N\_800\_2  
 Sample ID :  
 Data Filename : HD\_Gly\_131024\_N\_800\_2.lcd  
 Method Filename : SFB\_B\_ST1\_0.8 mL\_45 min\_Start.lcm  
 Batch Filename : 20241014\_DN\_HD\_N\_800\_131024\_postrun.lcb  
 Vial # : 1-27 Sample Type : Unknown  
 Injection Volume : 10 uL  
 Date Acquired : 10/13/2024 6:41:51 PM Acquired by : System Administrator  
 Date Processed : 10/14/2024 3:17:47 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

### <<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

## &lt;&lt;LC Time Program&gt;&gt;

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

## &lt;&lt;Peak Integration&gt;&gt;

## &lt;Detector A&gt;

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;

## &lt;Detector A&gt;

Channel : Ch1  
 Time Program : None

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

## &lt;Detector A&gt;

Channel	Time Program	Time(min)	Command	Value
Ch1	No. Enable 1 [Yes]	9.954	Move BL	10.403

## &lt;&lt;Identification&gt;&gt;

## &lt;Detector A&gt;

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

## &lt;&lt;Quantitative&gt;&gt;

## &lt;Detector A&gt;

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;

<Detector A>

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	

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	

```
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

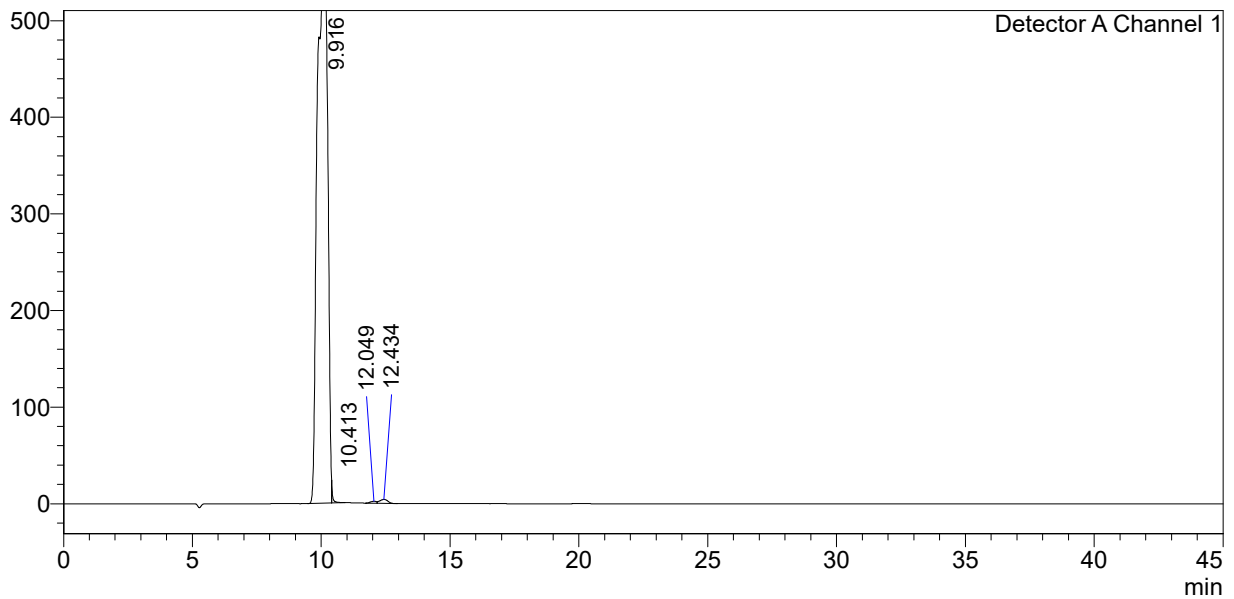
## &lt;&lt;Column Performance&gt;&gt;

## &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	9.916	16347785	482756	2.196	mol/L	M	Glycerin
2	10.413	53946	18339	0.000		V M	
3	12.049	33309	1910	0.007	mol/L		Ethylenglykol
4	12.434	88393	4058	0.005	mol/L	V	1,2 Propandiol
Total		16523433	507063				