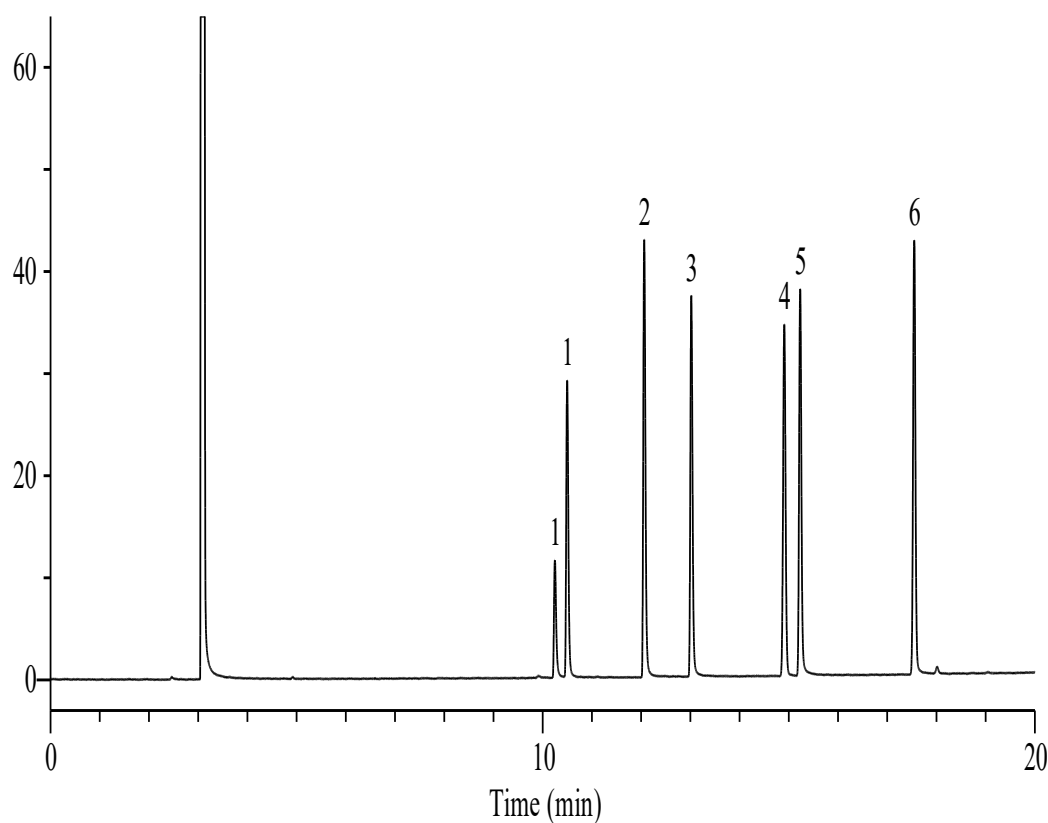


γ -Butyrolactone & Diols



Conditions

System : GC/FID
Column : InertCap 1701
 0.32 mm I.D. x 30 m df = 1.0 μ m
Col. Cat. No. : 1010-61245
Col. Temp. : 50 °C - 7 °C/min - 190 °C
Carrier Gas : He 50 kPa
Injection : Split flow 180 mL/min
 240 °C
Detection : FID Range 10⁰
 240 °C
Sample Size : 1 mg/mL in Acetone
 1 μ L

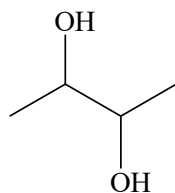
Analyte

1. 2,3-Butanediol*
 2. 1,2-Butanediol
 3. 1,3-Butanediol
 4. γ -Butyrolactone
 5. 1,4-Butanediol
 6. 1,5-Pentanediol

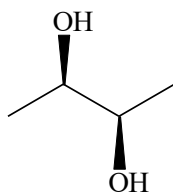
*Isomers mixture

γ -Butyrolactone & Diols

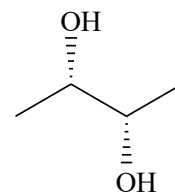
Chemical Structure



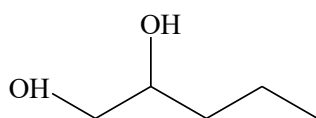
1. 2,3-Butanediol



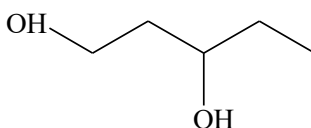
(2R,3R)-(-)- 2,3-Butanediol



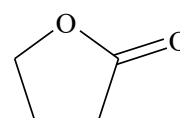
(2S,3S)-(+)- 2,3-Butanediol



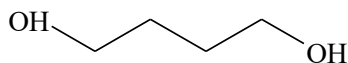
2. 1,2-Butanediol



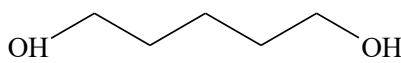
3. 1,3-Butanediol



4. γ -Butyrolactone



5. 1,4-Butanediol



6. 1,5-Pentanediol

Structures are created using Chemistry 4-D Draw which is provided by ChemInnovayion Software, Inc.