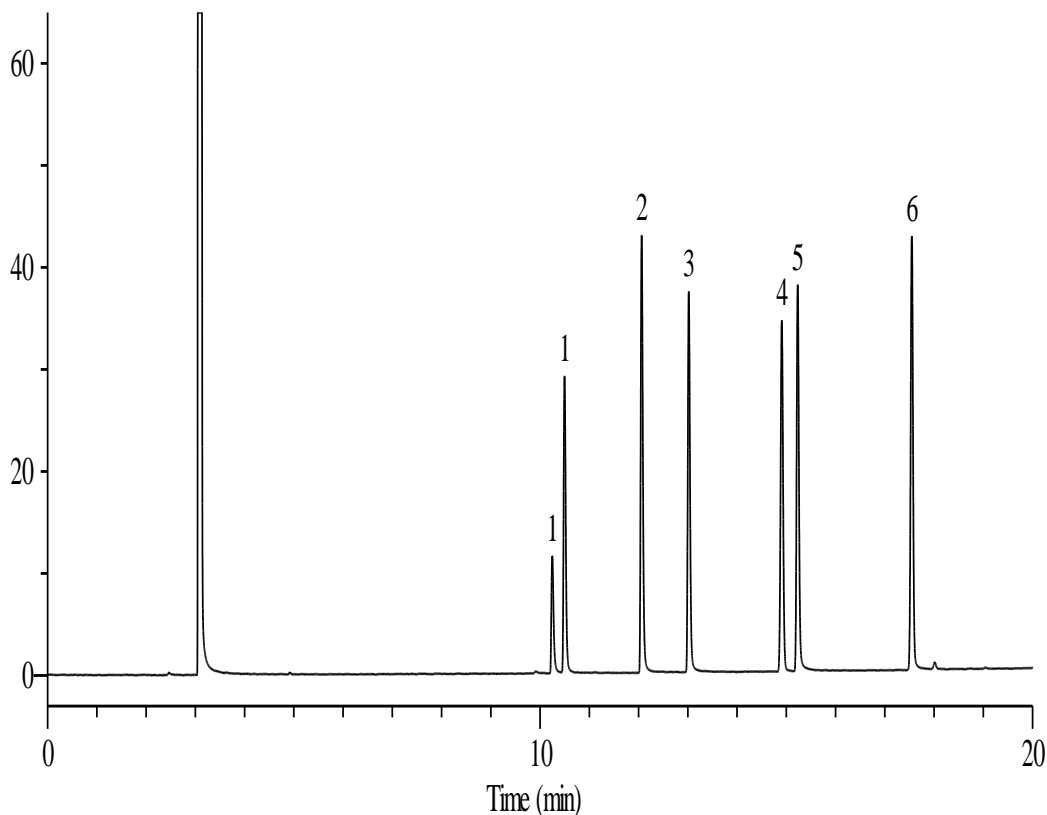


# InertSearch™ for GC

InertCap® Applications

## γ-Butyrolacton & Diols

Data No. GA136-0591



### Conditions

**System** : GC/FID  
**Column** : InertCap 1701  
0.32 mm I.D. x 30 m df = 1.0 µm  
**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 10<sup>0</sup>  
240 °C  
**Sample Size** : 1 mg/mL in Acetone  
1 µL

### Analyte

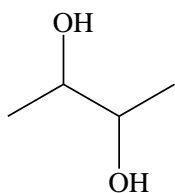
1. 2,3-Butanediol\*  
2. 1,2-Butanediol  
3. 1,3-Butanediol  
4. γ-Butyrolactone  
5. 1,4-Butanediol  
6. 1,5-Pentanediol

\*Isomers mixture

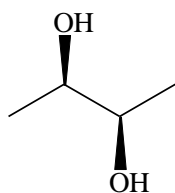
## γ-Butyrolacton & Diols

Data No. GA136-0591

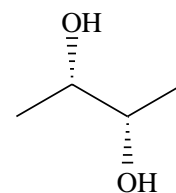
### Chemical Structure



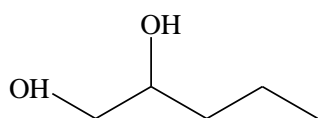
1. 2,3-Butanediol



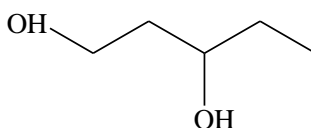
(2R,3R)-(-)- 2,3-Butanediol



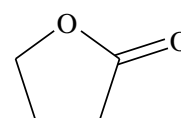
(2S,3S)-(+)- 2,3-Butanediol



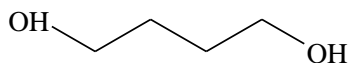
2. 1,2-Butanediol



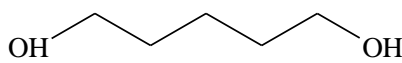
3. 1,3-Butanediol



4. γ-Butyrolactone



5. 1,4-Butanediol



6. 1,5-Pentanediol

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