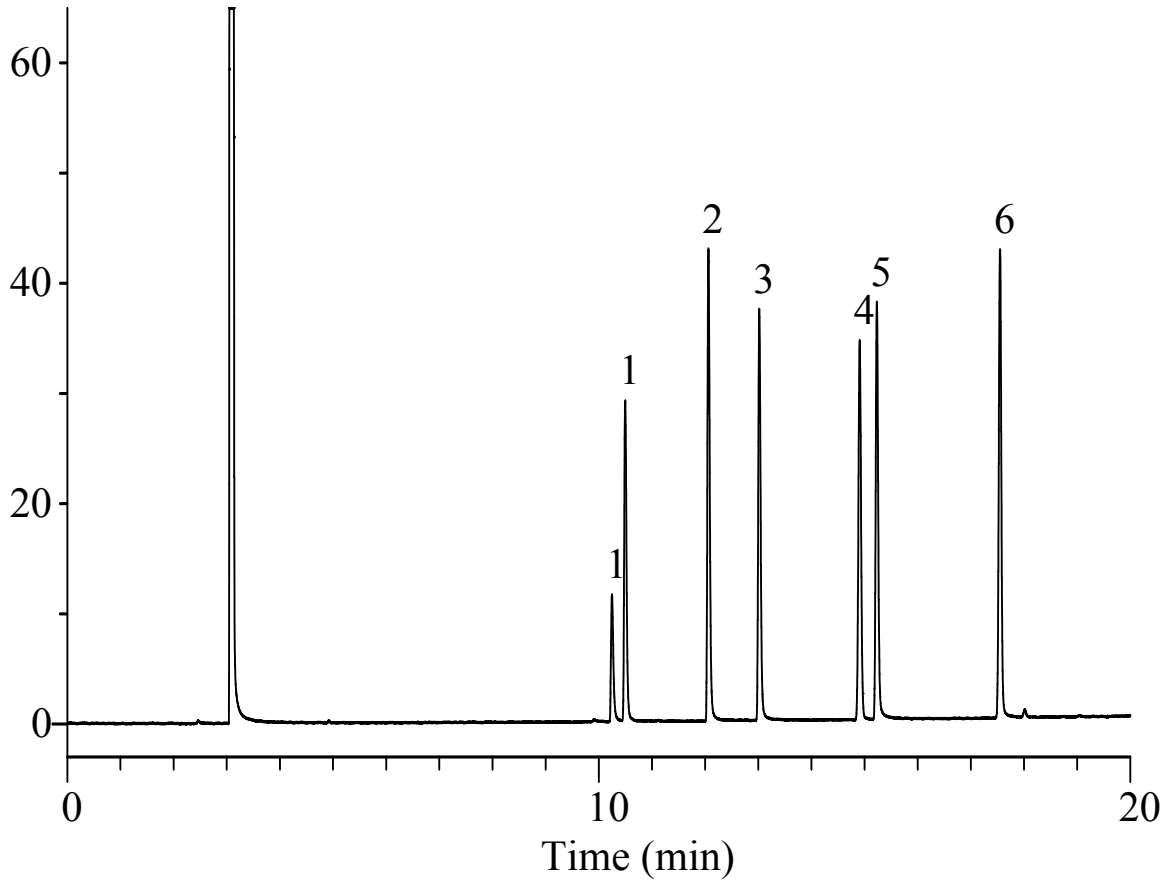
InertSearch™ for GC

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 ℃ - 7 ℃/min - 190 ℃
Carrier Gas	: He 50 kPa
Injection	: Split flow 180 mL/min 240 ℃
Detection	: FID Range 10^0 240 ℃
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

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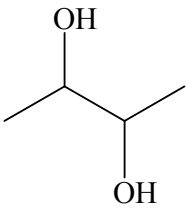
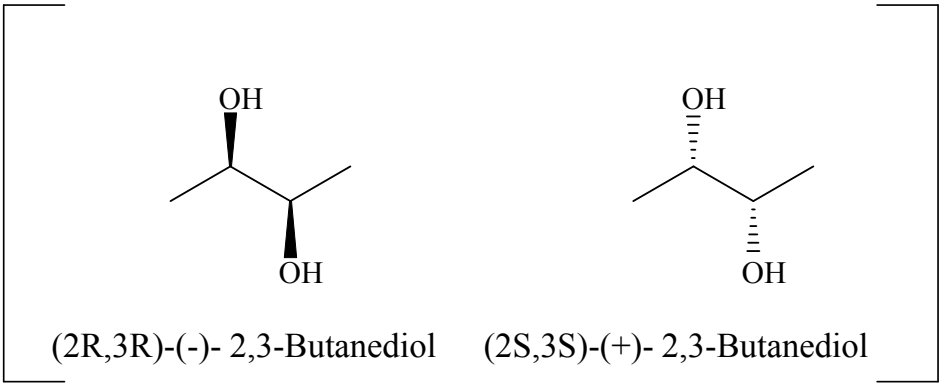
Chemical Structure

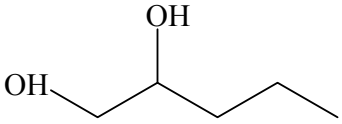


1. 2,3-Butanediol

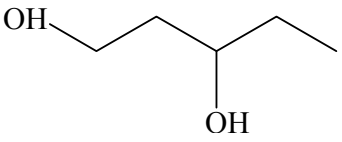


(2R,3R)-(-)- 2,3-Butanediol

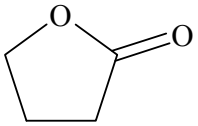
(2S,3S)-(+)- 2,3-Butanediol



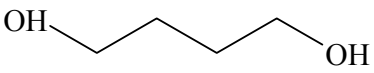
2. 1,2-Butanediol



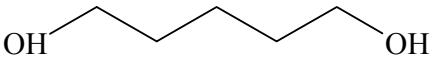
3. 1,3-Butanediol



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.

GL Sciences