

## PRODUCT DATA SHEET

### Alditol acetate Mixture-2 (quantitative)

**Catalog No:** 1125  
**Solvent:** chloroform  
**Storage:** -20°C  
**Concentration:** 50mg/ml  
**Volume:** 1ml

#### GC Conditions:

**Column:** SP2330 or RTX2330

**Carrier Gas:** helium

**Make-up Gas:** nitrogen

**Split Ratio:** 100:1

**Oven Initial:** 240°C

**Oven Final:** 240°C

**Detector:** FID, 250 °C

**Linear Velocity:** 20cm/sec

**Flow Rate:** 40ml/min

**Vent Flow:** 70ml/min

**Program Rate:** isothermal

**Hold Time:**

**Injector:** 250°C

#### Elution

<u>Order</u>	<u>Component Name</u>	<u>Conc. by weight</u>
1	Mannitol hexaacetate	12.5mg/ml
2	Galactitol hexaacetate	12.5mg/ml
3	Glucitol hexaacetate	12.5mg/ml
4	Inositol hexaacetate	12.5mg/ml

Composition in weight percent is determined by synthesis, not by analysis.

#### Application Notes:

All materials are analyzed to verify their identity and to determine their purity. All analytes are 98<sup>+</sup>% pure. This standard is accurately prepared by gravimetric technique (+/- 0.5%) and all glassware is class A rated. Ampules are purged with nitrogen/argon before and after filling and chilled before being flame sealed. Store ampules sealed as received and process without delay immediately after opening the ampule.

#### Selected References:

1. N. Brunton, T. Gormley, B. Murray "Use of the alditol acetate derivatisation for the analysis of reducing sugars in potato tubers" *Food Chemistry*, Vol. 104(1) pp. 398-402, 2007
2. G. Sasaki et al. "Rapid synthesis of partially O-methylated alditol acetate standards for GC-MS: some relative activities of hydroxyl groups of methyl glycopyranosides on Purdie methylation" *Carbohydrate Research*, Vol. 340(4) pp. 731-739, 2005

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