

## **Dulcitol**

Cat. No. CSUB-0797

Lot. No. (See product label)

## Introduction

**Description** Galactitol (dulcitol) is a sugar alcohol, the reduction product of galactose. In people

with galactokinase deficiency, a form of galactosemia, excess dulcitol forms in the lens of the eye leading to cataracts. Galactitol is produced from galactose in a reaction catalyzed by aldose reductase. Galactose itself comes from the metabolism of the disaccharide lactose into glucose and galactose. The other common galactose metabolism defect is a defect in galactose-1-phosphate uridylyltransferase, an autosomal recessive disorder, which also causes a buildup of galactitol as a result of increased concentrations of galactose-1-phosphate and galactose. The toxicity associated with galactose-1-phosphate uridylyltransferase deficiency is associated with symptoms of hepatosplenomegaly and mental

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retardation in addition to the cataracts caused by galactitol buildup.

**Applications** A sugar alcohol

**Synonyms** Galactitol

## **Product Information**

*CAS No.* 608-66-2

Molecular Formula C6H14O6

Molecular Weight 182.17

**Substrates** 5-lipoxygenase

**Refractive Index** 1.49 (Predicted)

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