

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 retardation in addition to the cataracts caused by galactitol buildup.

Applications A sugar alcohol

Synonyms Galactitol

Product Information

CAS No. 608-66-2

Molecular C6H14O6

Formula

Molecular 182.17

Weight

Substrates 5-lipoxygenase

Refractive 1.49 (Predicted)

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