

Erythritol

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	White crystalline powder
Physical Form	White crystalline powder
Odor	Odorless
Molecular Weight	122.12 g/mol
Density / Specific Gravity	1.451 g/cm ³ at 20 °C
Viscosity	184 +122/-73 Pas (pure erythritol)
Refractive Index	1.4502 (estimate)
pH (aqueous solution)	5.0 - 7.0 (10% aqueous solution)
Assay / Purity	≥99.0% (on dry basis)
Chemical Properties	
pKa	13.903 at 18 °C
Incompatibilities	Strong oxidizing agents, Strong bases
Hazardous Reactions / Decomposition Products	Under fire conditions, may decompose to form carbon monoxide and carbon dioxide.
Thermal Properties	
Melting Point	118 - 123 °C
Boiling Point	329 - 331 °C
Flash Point	329-331°C
Decomposition Temperature	Stable up to 160°C. Will not decompose or change at temperatures below 200°C.
Thermal Stability	Erythritol has very good thermal stability. It is stable under heat, acid, and alkali conditions.
Solubility	
Solubility in Water	Very soluble. 37 g in 100 mL at 25°C.
Solubility in Ethanol	Sparingly soluble.
Solubility in Acetone	The solubility of erythritol in pure acetone is the minimum.



Property	Specification
Solubility in Diethyl Ether	Insoluble.

2. Dosing by Application

Application	Recommended / Max Dosage
Coffee and tea	Quantum satis
Liquid dietary supplements	Quantum satis
Juice blends	Quantum satis
Soft drinks	Quantum satis
Flavored water	Quantum satis
Confections	Quantum satis
Biscuits and cookies	Quantum satis
Tabletop sweeteners	Quantum satis
Sugar-free chewing gum	Quantum satis
Toothpaste and mouthwash	As a non-cariogenic sweetener

The information and data contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof.

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