



ELHUME – MAO pow™ (Maltitol)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	White crystalline powder
Physical Form	White crystalline powder
Odor	Neutral
Molecular Weight	344.31 g/mol
Density / Specific Gravity	1.52 g/cm ³
Viscosity	24 mPa·s (50% w/v aqueous solution at 20°C)
Refractive Index	+105.5° to +108.5° (5% w/v solution)
pH (aqueous solution)	5.0-7.5
Assay / Purity	≥98%
Chemical Properties	
pKa	12.84
Ionic Nature	Non-ionic
Incompatibilities	Strong oxidizing agents
Hazardous Reactions / Decomposition Products	When heated above 200°C, decomposition may begin. Does not undergo browning reactions with amino acids.
Thermal Properties	
Melting Point	148-151 °C
Boiling Point	Not applicable
Flash Point	>150°C
Decomposition Temperature	Initial decomposition starts at 269.79°C.
Thermal Stability	Good thermal and chemical stability.
Solubility	
Solubility in Water	Freely soluble
Solubility in Ethanol	Slightly soluble
Solubility in Methanol	Insoluble



Property	Specification
Solubility in Glycerol	Miscible

2. Dosing by Application

Application	Recommended / Max Dosage
Sugar-free hard candy	Can be used as a near 1:1 replacement for sucrose.
Chewing gum	Used as a bulk sweetener.
Chocolates	Used as a sugar substitute.
Baked goods	Used for partial or full replacement of sugar.
Ice cream	Used as a sugar substitute.
Pharmaceutical syrups	Used as a non-crystallizing sweetening and suspending agent.
Lozenges	Used in the preparation of pharmaceutical lozenges.

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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