

Technical Data Sheet (TDS)
Ethyl Maltol

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Product Description

Ethyl Maltol is a white crystalline powder with a sweet, caramel-like odor. Renowned for its flavor-enhancing properties, Ethyl Maltol significantly improves the flavor profile in diverse applications including foods, beverages, pharmaceuticals, and fragrances. Its efficacy is approximately four to six times greater than maltol, making it highly efficient even at minimal usage levels.

Applications

- Flavor enhancer in confectionery, bakery products, dairy items, and beverages.
- Flavoring additive in tobacco products.
- Taste masking agent in pharmaceutical formulations.
- Modifier or fixative component in fragrance production.

Chemical Information

Chemical Name:	Ethyl Maltol
Chemical Formula:	C ₇ H ₈ O ₃
CAS No.:	4940-11-8
EINECS No.:	225-582-5
Molecular Weight:	140.14 g/mol

Specifications

Appearance:	White crystalline powder
Purity:	min. 99.0%
Odor:	Sweet, caramel-like
Melting Point:	89-93 °C
Solubility:	Slightly soluble in water; freely soluble in ethanol and propylene glycol
Loss on Drying:	max. 0.5%
Residue on Ignition:	max. 0.1%

Typical Properties

Boiling Point:	Not applicable (decomposes)
Flash Point:	above 150 °C (closed cup)
Bulk Density:	approx. 0.6 g/cm ³
Stability:	Stable under recommended storage conditions

Odor: Sweet, caramel-like odor

Packaging

Standard packaging in 25 kg fiber drums or cartons with polyethylene liners. Custom packaging available upon request, conforming to international transport standards.

Storage and Handling

- Store in tightly sealed containers in cool, dry, well-ventilated areas.
- Prevent exposure to direct sunlight, heat, and moisture.
- Ensure appropriate personal protective equipment is used during handling.

Safety and Regulatory Information

- Classified as non-hazardous under typical handling conditions per GHS.
- FDA approved and EU compliant as a food additive.
- Refer to the MSDS for detailed safety instructions and handling recommendations.
- Listed on TSCA (US) and EINECS (EU).

Disclaimer

This document is provided for informational purposes only. Tuoda Industry Limited makes no warranties regarding the suitability of this product for any particular application. Regulatory compliance must be verified by the customer.