

Tinhibitor™ 1701 Polymerisation Inhibitor

Introduction Tinhibitor™ 1701 is an important intermediate for the synthesis of HALS and also can be used as a pharmaceutical intermediate. It can prevent alkenes from self-polymerisation or control and adjust the degree of polymerisation.

Chemical Name 4-hydroxy-2,2,6,6-tetramethylpiperidinoxyl

CAS Number 2226-96-2

EINECS Number 218-760-9

Chemical Formula C₉H₁₈NO₂

Molecular Weight 172.25

Physical Properties

Appearance	Orange to Red Powder
Melting Point (°C)	69-72
Water Content (%)	Max.0.5
Ash (%)	Max.0.1
Purity (%)	Min.99.0

Solubility Soluble in water and all common polar solvents such as alcohols, glycol ethers, and acetates.

Benefits & Applications Good blocking effect under the condition of oxygen and without oxygen. Good polymerization resistance to acrylate, methacrylate, acrylic acid, acrylonitrile, styrene and butadiene.

Applications that can benefit from Tinhibitor™ 1701 include indoor parquetry and furniture as well as outdoor wood and timber work (doors, windows, cladding, paneling, fencing, decking, shingles, beams, etc.)

Tinhibitor™ 1701 is recommended for applications such as:

Clear wood fillers and sealers (except UV curable systems);

Industrial and DIY wood stains and tinting solutions;

Exterior wood stains (transparent pigmented);

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Industrial wood preservative treatments;
Sap-stain protectants, wood preservers, and waterproofers;
Penetrating clear and pigmented finishes (i.e. deck coatings);
Wood care products, waxes, and polishes.

Handling & Storage

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to two years in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when not in use.

For more detailed information please refer to the material safety data sheet.

Packing

Tinhibitor™ 1701 is supplied in 25Kg Carton Box.

Note

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability.

We disclaim liability for any incidental or consequential damages.