

TMG-AIBI

Product description

TMG-AIBI is a non-nitrile, cationic water-soluble azo polymerization initiator. It is highly effective for the polymerization of water-soluble vinyl monomer. The 10-hour half-life temperature is as low as 44 °C, and the product is active at low temperatures. TMG-AIBI finds widespread use in flocculants, super absorbent polymers, and finishing agents for textiles and wool.

Chemical Characteristics

Chemical Name	2,2'-Azobis [2-(2-imidazolin-2-yl) propane] dihydrochloride
CAS	27776-21-2
Appearance	Pale yellow crystals or crystalline powder
Solubility	Soluble in water, methanol, and ethanol. Insoluble in acetone and toluene
Assay	≥ 99.0 %
Melting point	188-193 °C
Moisture content	≤ 0.1 %

Applications

- Polymerization of acrylonitrile
- Aqueous solution polymerization of Acrylamide
- Aqueous solution polymerization of acrylic acid
- Emulsion polymerization of styrene
- Emulsion polymerization of methyl methacrylate/butyl acrylate.

Storage

Store away from sunlight in a well-ventilated dry place (lower than 40 °C). Internal pressure of the container is increased by the nitrogen gas released by thermal decomposition. Do not keep the container sealed. Note in humidity. Additionally, keep it away from heat sources and ignition sources to maintain safety.

Packaging

20 kg carton boxes

Special advice for security

Information concerning:

- classification and labelling according to the regulations governing transport and hazardous chemicals
- protective measures for storage and handling
- safety measures in case of accident and fire
- toxicity and ecological effects

are given in our material safety data sheets.