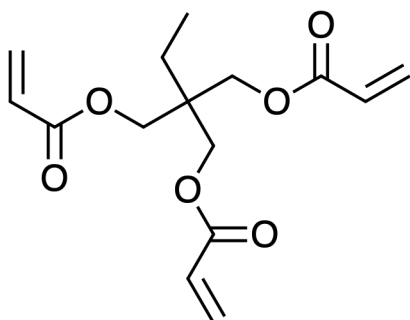


Technical Data Sheet

TMPTA

PRODUCT DESCRIPTION



Name: Trimethylolpropane triacrylate
CAS: 15625-89-5
UN No.: N/A
MW: 296.3
Product code: MDLT001

TMPTA is a trifunctional monomer, compatible with a wide range of acrylic resins. The acrylic acid ester polymerises in the presence of free radicals.

KEY FEATURES & BENEFITS

TMPTA is characterised by the product's low viscosity & light colour. Cured systems based on TMPTA are characterised by the following properties:

- Good film hardness & gloss
- Good adhesion
- Faster cure/high reactivity
- High crosslink density
- Good solvent & abrasion resistance

APPLICATIONS

The properties of TMPTA make it a useful crosslinking component in energy curable systems for:

- Inks - flexo, screen & offset
- Coatings - general industrial metal, machine/equipment metal, floor, furniture & millwork

The product also acts as a reactive diluent in such systems. Additional recommended applications include:

- Overprint varnishes (commercial or publication)
- Traffic strip paints
- Rubber crosslinking
- Pigment dispersions

PRODUCT SPECIFICATION

Appearance:	Clear liquid
Inhibitor, MEHQ (ppm):	200-400
Viscosity (@ 25°C, mPa.S):	70-110
Density (@ 25°C, g/cm ³):	1.09-1.12
Acid value (mg KOH/g):	0.2 max
Water KF (%w/w):	0.15% max
Colour (APHA):	40 max
Tri-ester content (Area%):	85% min
Total ester content (Area%):	98% min

STORAGE & HANDLING

TMPTA should be stored in a cool, dry place, away from direct sunlight with temperatures not exceeding 40°C. The product should be packed in stainless steel, amber glass, amber polyethylene or phenolic lined containers. Do not store this material under an oxygen free atmosphere. Material should not be stored for longer than 12 months and retesting is recommended after 6 months. Further safety information can be found in the Material Safety Data Sheet.