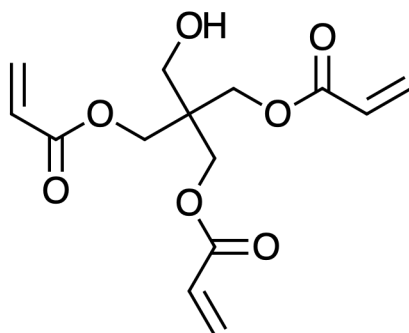


## Technical Data Sheet

### PETA

#### PRODUCT DESCRIPTION



Name: Pentaerythritol triacrylate  
CAS: 3524-68-3  
UN No.: N/A  
MW: 298  
Product code: MDLP001

PETA 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

PETA is characterised by the product's hydroxyl functionality & light colour. Cured systems based on PETA are characterised by the following properties:

- Good film hardness
- Good adhesion
- Faster cure/high reactivity
- High crosslink density
- Good scratch resistance

#### APPLICATIONS

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

- Inks - flexo, screen & offset
- Coatings - metal, glass, PVC, wood & paper
- Electronics - photoresist & solder mask
- Adhesives

PETA can also be used as an intermediate for oligomers.

#### PRODUCT SPECIFICATION

Appearance:	Clear liquid
Inhibitor, MEHQ (ppm):	400-800
Viscosity (@ 25°C, mPa.S):	400-700
Density (@ 25°C, g/cm <sup>3</sup> ):	1.15-1.21
Acid value (mg KOH/g):	0.5 max
Water KF (%w/w):	0.15% max
Colour (APHA):	40 max
Tri-ester content (Area%):	55-60%
Total ester content (Area%):	98% min

#### STORAGE & HANDLING

PETA 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.