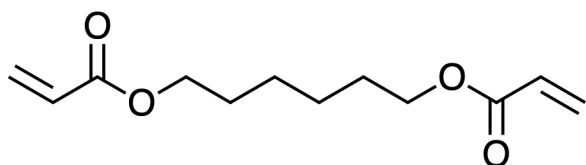


Technical Data Sheet

HDDA

PRODUCT DESCRIPTION



Name: 1,6-Hexanediol diacrylate
CAS: 13048-33-4
UN No.: N/A
MW: 226
Product code: MDLH001

HDDA is a difunctional reactive monomer with low viscosity for use in free radical polymerisation. The product is most beneficial in coatings & inks where improved elasticity, weathering and adhesion are key components.

KEY FEATURES & BENEFITS

HDDA is characterised by the product's very low viscosity, light colour & efficient reduction of oligomer viscosity. Cured systems based on HDDA are characterised by the following properties:

- Good hardness
- Improved chemical resistance
- Good elasticity
- Improved endurance
- Good adhesion
- Good cure response at low cross-link density
- Good water & heat resistance

APPLICATIONS

The properties of HDDA make it a useful crosslinking component in UV & EB energy curable systems for:

- Coatings (plastics, metal & glass)
- Inks (flexo & gravure)
- Adhesives (binder & pressure sensitive)
- Electronics (photopolymers, photoresists & solder masks)
- Paints

PRODUCT SPECIFICATION

Appearance:	Clear liquid
Inhibitor, MEHQ (ppm):	100-250
Viscosity (@ 25°C, CPS):	5-10
Density (@ 25°C, g/cm ³):	1.01-1.03
Acid value (mg KOH/g):	0.2 max
Refractive index (@ 25°C)	1.453-1.457
Water by KF (%w/w):	0.1% max
Colour (APHA):	40 max
Purity (Area%):	98.0% min
Residual solvent (Area%):	0.2% max

STORAGE & HANDLING

HDDA should be stored in a cool, dry place, away from direct sunlight with temperatures not exceeding 40°C, ignition sources, oxidizing agents, alkalis or acids. If subject to any of these listed conditions, the product could undergo uncontrollable polymerisation alongside heat generation. 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. Keep containers tightly closed. 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.