SARTOMER®

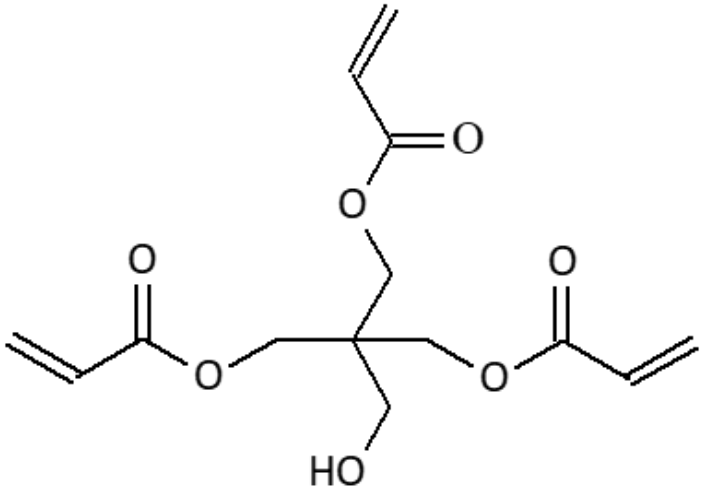
TECHNICAL DATA SHEET

SR444

Pentaerythritol and Trimethylolpropane Acrylate Esters

DESCRIPTION

SR444 contains a pendant hydroxyl group and is a low volatility, fast curing monomer for use in free radical polymerization.



LIQUID PROPERTIES

Appearance	Clear liquid
Functionality	3
Color (Pt/Co or APHA)	<250
Density at 25°C (g/mL)	1.1654
Refractive Index at 25°C	1.4801
Viscosity at 25°C (mPa.s or cPs)	520
Molecular Weight (g/mol)	298
Surface Tension at 20°C (mN/m)	39

CURED PROPERTIES

Tg (°C), by DSC	103

PRODUCT PERFORMANCE

Hardness
Chemical Resistance
Stain Resistance
Scratch Resistance
Abrasion Resistance
Weatherability
Moisture Resistance
Corrosion Resistance

SUGGESTED APPLICATIONS

Adhesives & sealants
Flexographic inks
Inkjet inks
Metal coatings
Offset inks
Optical fibers
Overprint varnishes
Polymer synthesis
Rubber manufacturing
Screen inks
Wood coatings

SHELF LIFE

Store in the original, closed container in a dry, cool (<45°C) and well-ventilated place. Keep away from frost and heat (open flames, hot surfaces and sources of ignition) sources. Typical shelf-life is 6 months from delivery date for unopened containers. In cases where product sampling is required to carry out incoming quality tests, shelf-life should be maintained beyond opening, provided that it is tightly closed immediately after and that contamination with foreign bodies is avoided.
Inhibitors have been added to enhance storage stability. They require the presence of air in the container in order to improve their efficiency. Keep stabilizer levels constant to avoid explosive polymerization. An air space is required above the liquid in all containers

STORAGE

See SDS for Storage Considerations

HEALTH AND SAFETY

See SDS for Health & Safety Considerations

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