

## 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.

	<p><b>LIQUID PROPERTIES</b></p> <table> <tr><td>Appearance</td><td>Clear liquid</td></tr> <tr><td>Functionality</td><td>3</td></tr> <tr><td>Color (Pt/Co or APHA)</td><td>&lt;250</td></tr> <tr><td>Viscosity at 25°C (mPa.s or cPs)</td><td>520</td></tr> <tr><td>Density at 25°C (g/mL)</td><td>1.1654</td></tr> <tr><td>Molecular Weight (g/mol)</td><td>298</td></tr> <tr><td>Refractive Index at 25°C</td><td>1.4801</td></tr> <tr><td>Surface Tension at 20°C (mN/m)</td><td>39</td></tr> </table> <p><b>CURED PROPERTIES</b></p> <table> <tr><td>Tg (°C), by DSC</td><td>103</td></tr> </table> <p><b>PRODUCT PERFORMANCE</b></p> <ul style="list-style-type: none"> <li>Chemical Resistance</li> <li>Hardness</li> <li>Stain Resistance</li> <li>Scratch Resistance</li> <li>Abrasion Resistance</li> <li>Weatherability</li> <li>Moisture Resistance</li> <li>Corrosion Resistance</li> </ul> <p><b>SUGGESTED APPLICATIONS</b></p> <ul style="list-style-type: none"> <li>Adhesives &amp; sealants</li> <li>Flexographic inks</li> <li>Inkjet inks</li> <li>Metal coatings</li> <li>Offset inks</li> <li>Optical fibers</li> <li>Overprint varnishes</li> <li>Polymer synthesis</li> <li>Rubber manufacturing</li> <li>Screen inks</li> <li>Wood coatings</li> </ul>	Appearance	Clear liquid	Functionality	3	Color (Pt/Co or APHA)	<250	Viscosity at 25°C (mPa.s or cPs)	520	Density at 25°C (g/mL)	1.1654	Molecular Weight (g/mol)	298	Refractive Index at 25°C	1.4801	Surface Tension at 20°C (mN/m)	39	Tg (°C), by DSC	103
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<p><b>SHELF LIFE</b></p> <p>Store in the original, closed container in a dry, cool (&lt;38°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</p> <p><b>STORAGE</b></p> <p>See SDS for Storage Considerations</p> <p><b>HEALTH AND SAFETY</b></p> <p>See SDS for Health &amp; Safety Considerations</p>																			

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