

# PRODUCT SPECIFICATIONS

**Product Name:** Glycerin Refined USP Grade, Kosher for Laundry  
**Product Code:** TRG100KL

**Chemical Name:** Glycerol

<u>Properties</u>	<u>Specifications</u>	<u>Methods</u>
<b>Color</b>	Pass (APHA equivalent 20 max)	USP/NF*
<b>Identification A, IR</b>	Passes test as glycerin	USP #197F
<b>Identification B, Limit of DEG &amp; EG</b>	Pass	USP/NF*
<b>Identification C, GC</b>	Passes test as glycerin	USP/NF*
<b>Specific Gravity (SG)</b>	1.2613 @25/25°C min	USP #841
<b>% Glycerin, by calculation from SpGrav</b>	99.7 min	TRAM-108
<b>Residue on Ignition (ROI)</b>	0.01% max	USP #281
<b>Water</b>	0.3% max	USP #I-921
<b>Chloride</b>	Pass (10ppm or 0.001% max)	USP #221
<b>Sulfate</b>	Pass (20ppm or 0.002% max)	USP #221
<b>Heavy Metals</b>	5 ppm max (ug/g)	USP #231
<b>Limit of Chlorinated Compounds</b>	PASS (30ppm or 0.003% max)	USP/NF*
<b>Fatty Acids &amp; Esters (FA &amp; E)</b>	not more than 1 mL of 0.5N NaOH consumed	USP/NF*
<b>Related Compounds</b>	not more than 0.1% any other individual impurity, And not more than 1.0% for total impurities	USP/NF*
<b>Assay, anhydrous</b>	99.0-101.0%	USP/NF*
<b>Residual Solvents</b>	Pass (meets requirements)	USP* <467>

\* In compliance with the latest USP/NF supplement

*All data, including the formulations and procedures discussed herein are believed to be correct. However, this should not be accepted as a guarantee of their accuracy, and confirming tests should be run in your own plant or laboratory. No statement shall be construed as a recommendation for any use which would violate patent rights. Sales of all products are pursuant to terms and conditions included in Twin Rivers Technologies sales documents. Nothing contained herein shall constitute a guarantee or warranty with respect to the products described or their use. Safety information regarding this product is contained in its Material Safety Data Sheet (MSDS). Users of this product are urged study and use the information contained on the MSDS.*