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High oleic acid triglyceride compositions that comprise fatty acid components of at least 75 % oleic acid, less than 10 % diunsaturated fatty acid component; less than 3 % triunsaturated fatty acid component; and less than 8 % saturated fatty acid component; and having the properties of a dielectric strength of at least 35 KV/100 mil gap, a dissipation factor of less than 0.05 % at 25 °C, acidity of less than 0.03 mg KOH/g, electrical conductivity of less than 1 pS/m at 25 °C, a flash point of at least 250 °C and a pour point of at least -15 °C are disclosed. An electrical insulation fluid comprising the triglyceride composition is disclosed. Electrical apparatuses comprising the electrical insulation fluid and the use of electrical insulation fluid to provide insulation in electrical apparatuses are disclosed. A process for preparing the high oleic acid triglyceride composition is disclosed.

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