



Airable Research Lab has developed a multifunctional soy-based fatty acid ester that can substitute for petroleum-based chemicals, enabling a variety of low-cost and low-toxicity products.

APPLICATIONS

SAXE-ONE has potential applications as a paint stripper and lubricant, as well as other industrial applications that entail extreme exposure conditions (temperature, pH, microbes, or corrosive environments). The product can also be used as a starting material for making acrylate monomers, friction reducers, and plasticizers.

TECHNOLOGY DATA

| Property | Value |
|--|------------------|
| Active | 100% |
| Physical form at 20°C | Liquid |
| Density | 0.99 g/mL |
| Boiling point (ASTM D 1120) | 293°C |
| Freezing point (EP 10) | -49°C |
| Viscosity at 20°C | 52 cps |
| Refractive index at 20°C | 1.475 |
| Flash point (ASTM D93) | 72 |
| Hydroxyl value (ASTM D4274) | 137 mg KOH/g |
| Acid value | <1.0 mg of KOH/g |
| lodine value/number (USP 42/NF 37 Supplement 2) | 40 g/100 g |
| Solubility (20 wt% at 20°C): | |
| Acetone | Soluble |
| 2-butoxy ethyl acetate | Soluble |
| Heptane | Soluble |
| Methyl ethyl ketone | Soluble |
| Soymethyl ester/ethyl lactate blend | Soluble |
| Soymethyl ester | Soluble |
| Toluene | Soluble |
| Water | Not soluble |