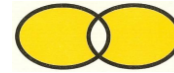


UNISOURCE-ENERGY, LLC
Specialty Naphthenic Oil
Typical Properties



Supplier Name	UNISOURCE
Product Name	UNINAP® 40 JS

Test Description	ASTM NO.	
Specific Gravity @ 60°/60°F	D 1250	0.8778
Gravity, °API @ 60°F	D 287	29.7
Density (Lb/Gal) @ 60°F	D 1250	7.309
Color, ASTM	D 1500	L 0.5
Viscosity, SSU @ 100°F	D 2161	40.8
Viscosity, SSU @ 210°F	D 2161	31.2
Viscosity, cSt @ 40°C	D 445	4.28
Viscosity, cSt @ 100°C	D 445	1.53
Kauri Butanol	D 1133	35
Aniline point, °F (°C)	D 611	153 (67.2)
Refractive Index @ 20°C	D 1218	1.4821
Flash Point, COC, °F (°C)	D 92	260 (126.7)
Pour Point, °F (°C)	D 97	<-60 (<-51)
Chemical Composition, Vol. %		
Carbon Type Analysis	D 2140	
Ca		12
Cn		44
Cp		44
Sulfur, Wt.%	D 2622	< 0.003

Chemical Abstract #	64742-53-6 Mar-12
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*The values shown here are representative of current production.
Some are controlled by manufacturing specifications, while others are not.
All may vary within modest ranges.*