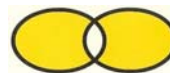


UniSource Energy, Inc.
Specialty Naphthenic Oil
Typical Properties



Supplier Name	UNISOURCE
Product Name	UNINAP® 100 JS

Test Description	ASTM NO.	
Specific Gravity @ 60°/60°F	D 1250	0.8984
Gravity, °API @ 60°F	D 287	26.0
Density (Lb/Gal) @ 60°F	D 1250	7.481
Color, ASTM	D 1500	L 0.5
Viscosity, SSU @ 100°F	D 2161	109
Viscosity, SSU @ 210°F	D 2161	38.4
Viscosity, cSt @ 40°C	D 445	20.5
Viscosity, cSt @ 100°C	D 445	3.58
Aniline point, °F (°C)	D 611	176 (80)
Refractive Index @ 20°C	D 1218	1.4883
Flash Point, COC, °F (°C)	D 92	345 (174)
Pour Point, °F (°C)	D 97	-30 (-34.4)
Chemical Composition, Vol. %		
Carbon Type Analysis	D 2140	
Ca		4
Cn		52
Cp		44
Sulfur, Wt.%	D 2622	< 0.003

Chemical Abstract #	64742-53-6 Dec-11
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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.*