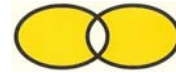


UniSource Energy, Inc.  
Specialty Naphthenic Oil  
Typical Properties



Supplier Name	UNISOURCE
Product Name	UNINAP® 100 RC

Test Description	ASTM NO.	
Specific Gravity @ 60°/60°F	D 1250	0.908
Gravity, °API @ 60°F	D 287	24.4
Density (Lb/Gal) @ 60°F	D 1250	7.558
Color, ASTM	D 1500	L 1.0
Viscosity, SSU @ 100°F	D 2161	104.6
Viscosity, SSU @ 210°F	D 2161	38.3
Viscosity, cSt @ 40°C	D 445	19.64
Viscosity, cSt @ 100°C	D 445	3.54
Viscosity Gravity Constant	D 2501	0.873
Aniline point, °F (°C)	D 611	165 (74)
Refractive Index @ 20°C	D 1218	1.498
Flash Point, COC, °F (°C)	D 92	330 (164)
Pour Point, °F (°C)	D 97	-45 (-43)
Chemical Composition, Wt. %		
Carbon Type Analysis	D 2140	
Ca		17
Cn		41
Cp		42
Sulfur, Wt.%	D 3120	0.03

Chemical Abstract # 64742-52-5  
Sep-11

*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.*