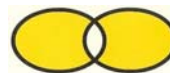


UniSource Energy, Inc.  
Specialty Naphthenic Oil  
Typical Properties



Supplier Name	UNISOURCE
Product Name	UNINAP® 818 AC

Test Description	ASTM NO.	
Specific Gravity @ 60°/60°F	D 1298	0.911
Gravity, °API @ 60°F	D 287	23.8
Density (Lb/Gal) @ 60°F	D 287	7.6
Color, ASTM	D 1500	1.5
Viscosity, SSU @ 100°F	D 88	807
Viscosity, SSU @ 210°F	D 88	66.9
Viscosity, cSt @ 40°C	D 445	151
Viscosity, cSt @ 100°C	D 445	11.75
Viscosity Gravity Constant	D 2501	0.846
Aniline point, °F (°C)	D 611	212 (100)
Refractive Index @ 20°C	D 1747	1.4984
Flash Point, COC, °F (°C)	D 92	436 (224)
Pour Point, °F (°C)	D 97	-20 (-29)
Chemical Composition, Vol. %		
Clay Gel Analysis	D 2007	
Saturates		68.8
Aromatics		30
Polar Compounds		1.2
Asphaltenes		ND
Sulfur, Wt.%	D 3120	0.07

Chemical Abstract #	64742-52-5
Meets FDA Procedure	178.3620 C Feb-03

*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.*