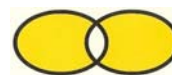


UniSource Energy, Inc.
Specialty Naphthenic Oil
Typical Properties



Supplier Name	UNISOURCE
Product Name	UNINAP® 40 YN

Test Description	ASTM NO.	
Specific Gravity @ 60°/60°F	D 4052	0.892
Gravity, °API @ 60°F	D 287	27.2
Density (Lb/Gal) @ 60°F	D 287	7.4
Color, ASTM	D 1500	L 0.5
Viscosity, SSU @ 100°F	D 88	41.6
Viscosity, SSU @ 210°F	D 88	31.5
Viscosity, cSt @ 40°C	D 445	4.5
Viscosity, cSt @ 100°C	D 445	1.6
Aniline point, °F	D 611	138
Refractive Index @ 20°C	D 1747	1.485
Flash Point, COC, °F	D 92	266
Pour Point, °F	D 97	< -94
Chemical Composition, Vol. %		
Clay Gel Analysis	D 2007	
Saturates		80
Aromatics		19.8
Polar Compounds		0.2
Asphaltenes		0
Sulfur, Wt.%	D 3120	<0.01

Chemical Abstract # 64742-46-7
Nov-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.*