

Ad blue

No	Test Name	Test method	Unit	Result
1	Pas PO3	ISO 22241-2	Mg/Kg	<0.5
2	Ca content			<0.5
3	Fe content			<0.5
4	CU content			<0.2
5	Zn content			<0.2
6	Cr content			<0.2
7	Ni content			<0.2
8	K content			< 0.5
9	Mg content			< 0.5
10	Na content			< 0.5
11	Al content			< 0.5
12	Insoluble mater			<20
13	Alkalinity index @20° C		Mass %	0.003
14	Urea content		Mass %	32.5
15	Refractive index @ 20° C		-----	1.3835
16	Density @ 20 ° C	ASTM D - 4052	g/ml	1.085

Butylal

NO	Specification	Limit	unit	Test Method
1	Purity	Min 99.5	mass%	Gas Chromatography
2	Appearance	Clear, White	-	Visual inspection
3	Flash Point	62.2	°C	ASTM D93
4	Density @ 15 °C	0.835	kg/m ³	ASTM D1298
5	Boiling Range @ 760mmHg	182.5	°C	ASTM D86
6	Molecular Weight	160.3	g/mol	IP 86
7	Free Formaldehyde	nil	ppm	ISO-2277
8	Heavy Metals (as pb)	nil	ppm	USP Method

DIOXOLANE

NO	Specification	Limit	unit	Test Method
1	Purity	Min 99.5	mass%	Gas Chromatography
2	Appearance	Clear, White	-	Visual inspection
3	Water Content	Max 0.1	mass%	ASTM D4377
4	Density @ 15 °C	1.069	kg/m ³	ASTM D1298
5	Boiling Range @ 760mmHg	75	°C	ASTM D86
7	Molecular Weight	74.08	g/mol	IP 86
9	Free Formaldehyde	nil	ppm	ISO-2277
10	Heavy Metals (as pb)	nil	ppm	USP Method

Ethyl Acetate

NO	Specification	Limit	unit	Test Method
1	Purity	Min 99.5	mass%	Gas Chromatography
2	Appearance	Clear, White	-	Visual inspection
3	Water Content	Max 0.1	mass%	ASTM D4377
4	Density @ 15 °C	0.902	kg/m ³	ASTM D1298
5	Boiling Point @ 760mmHg	77	°C	ASTM D86
6	Refractive index	1.372	-	ASTM D1218
7	Molecular Weight	88.106	g/mol	IP 86
8	Vapor Pressure @ 20°C	73	mmHg	ASTM D323

Etylal

NO	Specification	Limit	unit	Test Method
1	Purity	Min 99.5	mass%	Gas Chromatography
2	Appearance	Clear,Colorless	-	Visual inspection
3	Flash Point	-7	°C	ASTM D93
4	Density @ 15 °C	0.830	kg/m ³	ASTM D1298
5	Boiling Range @ 760mmHg	88	°C	ASTM D86
6	Molecular Weight	104.2	g/mol	IP 86
7	Free Formaldehyde	nil	ppm	ISO-2277
8	Heavy Metals (as pb)	nil	ppm	USP Method

Methyl Acetate

NO	Specification	Limit	unit	Test Method
1	Purity	Min 99	mass%	Gas Chromatography
2	Appearance	Clear, White	-	Visual inspection
3	Water Content	Max 0.1	mass%	ASTM D4377
4	Density @ 15 °C	0.930	kg/m ³	ASTM D1298
5	Boiling Point @ 760mmHg	56.9	°C	ASTM D86
6	Vapor Pressure @ 20°C	173	mmHg	ASTM D323
7	Molecular Weight	74.079	g/mol	IP 86
8	Methanol	Max 0.1	mass%	Gas Chromatography

Methylal

(Dimethoxymethane)

NO	Specification	Limit	unit	Test Method
1	Purity	Min 99.5	mass%	Gas Chromatography
2	Appearance	Clear, White	-	Visual inspection
3	Water Content	Max 0.1	mass%	ASTM D4377
4	Density @ 15 °C	855	kg/m ³	ASTM D1298
5	Boiling Range @ 760mmHg	41.5	°C	ASTM D86
6	Vapor Pressure @ 20°C	325	mmHg	ASTM D323
7	Molecular Weight	76.09	g/mol	IP 86
8	Methanol	Max 0.1	mass%	Gas Chromatography
9	Free Formaldehyde	nil	ppm	ISO-2277
10	Heavy Metals (as pb)	nil	ppm	USP Method

nButyl Acetate

NO	Specification	Limit	unit	Test Method
1	Purity	Min 99	mass%	Gas Chromatography
2	Appearance	Clear, White	-	Visual inspection
3	Water Content	Max 0.05	mass%	ASTM D4377
4	Density @ 15 °C	0.880	kg/m ³	ASTM D1298
5	Boiling Point @ 760mmHg	126	°C	ASTM D86
6	Refractive index	1.394	-	ASTM D1218
7	Molecular Weight	116.160	g/mol	IP 86

PROPERTIES OF SOLVESSO 100

Specifications	Units	Result	Test Method
Appearance	-	Clear, Colorless	Visual
Density 15°C	Kg/m ³	0.860	ASTM D1298
Distillation			ASTM D 86
IBP	°C	159	ASTM D 86
5% VOL	°C	164	ASTM D 86
10% VOL	°C	164	ASTM D 86
20% VOL	°C	165	ASTM D 86
30% VOL	°C	166	ASTM D 86
40% VOL	°C	166	ASTM D 86
50% VOL	°C	167	ASTM D 86
60% VOL	°C	167.5	ASTM D 86
70% VOL	°C	168	ASTM D 86
80% VOL	°C	170	ASTM D 86
90% VOL	°C	174	ASTM D 86
95% VOL	°C	182	ASTM D 86
FBP	°C	192	ASTM D 86
Residue	% VOL	Max 1	ASTM D 86
Total Sulfur	ppm	0	ASTM D 4294
Flash Point	°C	Min 50	ASTM D93

PROPERTIES OF SOLVESSO 150

Specifications	Units	Result	Test Method
Appearance	-	Clear, Colorless	Visual
Density 15°C	Kg/m ³	0.904	ASTM D1298
Distillation			ASTM D 86
IBP	°C	174	ASTM D 86
5% VOL	°C	186	ASTM D 86
10% VOL	°C	188	ASTM D 86
20% VOL	°C	190	ASTM D 86
30% VOL	°C	190	ASTM D 86
40% VOL	°C	191	ASTM D 86
50% VOL	°C	192	ASTM D 86
60% VOL	°C	194	ASTM D 86
70% VOL	°C	196	ASTM D 86
80% VOL	°C	198	ASTM D 86
90% VOL	°C	207	ASTM D 86
95% VOL	°C	217	ASTM D 86
FBP	°C	218	ASTM D 86
Residue	% VOL	Max 1	ASTM D 86
Total Sulfur	ppm	0	ASTM D 4294
Flash Point	°C	Min 65	ASTM D93

CTS 280- Fuel Oil

Test	Method	Unit	Result
Density @ 15 °C	ASTM D-1298	g/cm3	0.9613
Kinematic Viscosity @ 50°C	ASTM D- 445	cSt	250
Flash Point	ASTM D-93-B	°C	>90.0
Pour Point	ASTM D-97	Deg C	+9
Water Content by distillation	ASTM D-95	%vol	0.05
Sulphur Content	ASTM D-4294	%wt	4.04
Ash Content	ASTM D-482	%wt	0.04
Conradson Carbon Residue	ASTM D-189	%wt	8.61
Sediment by extraction	ASTM D-473	%wt	0.05
Total Sediment	ASTM D-4870-A	%m/m	TBA
Gross Calorific Value	ASTM D-4868	MJ/kg	42.37
Net Calorific Value			40.02
Metal	IP-470	Ppm wt	
Zink			1
Sodium			35
Calcium			17
Aluminum + Silicon (4+10)			14
Vanadium			58

Gasoline – African Market

Specifications	Units	Result	Test Method
Research octane number, RON	-	Min 90	ASTM D2699
Motor octane number, MON	-	Min 80	ASTM D2699
Density 15°C	Kg/m ³	Min 740 Max 780	ASTM D1298
DVPE	Kpa	Summer 40-67 Winter 45-80	ASTM D323
Distillation			ASTM D86
IBP	°C	Max40	ASTM D86
10% VOL	°C	Max70	ASTM D86
50% VOL	°C	Max120	ASTM D86
FBP	°C	Max205	ASTM D86
Residue	% VOL	1	ASTM D86
Losses	% VOL	2	ASTM D86
Combustion			
Oxygen	Mass %	Max 2	EN 1601
Total sulfur	Wt%	Min 300 Max 1000	ASTM D4294
Composition			
Aromatics	% VOL	Max 40	ASTM D1319
Olefins	% VOL	Max 35	ASTM D1319
Benzene	% VOL	Max 25	ASTM D1319
Metallic additives	Mass %	0	ASTM D1319
Methanol	% VOL	0	EN 1601
Other Data			
Oxid Stability	Minutes	>960	ISO 7536
Copper strip	Merit	1A	ISO 2160
Existent gum	Mg/100ml	<5	ISO 6246
Appearance	Color	Lemon / Bright	Visual

Light Diesel

Tank 102B	Max	Min	Appearance
0.805	0.81	0.8	<u>Density@15</u>
132	150	130	IBP
170	175	165	5%
184	190	180	10%
200	205	195	20%
213	220	210	30%
227	230	220	40%
240	245	235	50%
255	262	250	60%
273	279	270	70%
308	310	300	80%
-	-	-	90%
-	-	-	95%
352	360	340	FBP
14.86	-	-	Recovery/residue
48.55	55	45	D92
34.78	39	32	D93
1770	2500	1500	Sulfur