

<b>Category: PHYSICAL TESTING STANDARDS</b>		
<b>Subcategory: ASTM D 97 Pour Point Standards</b>		
<b>Pour Points are determined by consensus analysis. Standards are packaged in 250ml bottles.</b>		
<b>Table: ASTM D97 Pour Point Standards</b>		
<b>Pour Point, Approx. Value</b>	<b>Catalog #</b>	<b>Price</b>
-05C	IMPP5	\$140.00
-10 C	IMPP10	\$140.00
-15 C	IMPP15	\$140.00
-20 C	IMPP20	\$140.00
-40 C	IMPP40	\$140.00
-50 C	IMPP50	\$140.00

The above Pour Point standards are in development stages and will probably not be available until January 2008.

<b>Category: PHYSICAL TESTING STANDARDS</b>		
<b>Subcategory: ASTM D2386 Freezing Point Standards</b>		
<b>Standards are packaged in 250ml amber bottles and verified by consensus analysis.</b>		
<b>Table: ASTM 2368 Freezing Point Standards</b>		
<b>Nominal Freezing Point</b>	<b>Catalog #</b>	<b>Price</b>
-45 C	IMFPZ 45	\$135.00
-50 C	IMFPZ 50	\$135.00

**Category: PHYSICAL TESTING STANDARDS**

**Subcategory: ASTM D2500 Cloud Point Standards**

**Cloud points are determined by consensus analysis. Standards are packaged in 250ml bottles.**

**Table: ASTM D2500 Cloud Point Standards**

<b>Cloud Point, Approx. Value</b>	<b>Catalog #</b>	<b>Price</b>
+5 C	IMCP5	\$135.00
-2 C	IMCP2	\$135.00
-10 C	IMCP 10	\$135.00
-15 C	IMCP 15	\$135.00
-20 C	IMCP 20	\$135.00

**Category: PHYSICAL TESTING STANDARDS**

**Subcategory: ASTM D445 Viscosity Standards**

**Oils are tested in accordance with ASTM D445 and are packaged in 500ml amber glass bottles.**

**Table: ASTM D445 Viscosity Standards**

<b>Viscosity @ 40C</b>	<b>Nominal Viscosity Catalog #</b>	<b>Price</b>
110 cSt	IMVIS110	\$75.00
54 cSt	IMVIS60	\$75.00
9.5 cSt	IMVIS10	\$75.00
130 cSt	IMVIS130	\$75.00
102 cSt	IMVIS100	\$75.00
30 cSt	IMVIS30	\$75.00
300 cSt	IMVIS300	\$75.00
520 cSt	IMVIS520	\$75.00
920 cSt	IMVIS920	\$75.00

**Category: PHYSICAL TESTING STANDARDS**

**Subcategory: ASTM D5482/ D5191 Vapor Pressure Standards**

**Analytical Services, Inc. offers a range of vapor pressure quality control samples for ASTM D5482 and D5191 (mini-methods), consisting of pure solvents of known vapor pressure. The samples are packaged in 10ml flame sealed ampoules.**

**Table: ASTM D5482/D5191 Vapor Pressure Standards**

<b>Standard No.</b>	<b>Vapor Pressure</b>	<b>Catalog #</b>	<b>Price/Set of 10</b>
1	68.3 kPa (9.91 p.s.i.)	IMVP1	75.00
2	68.0 kPa (9.86 p.s.i.)	IMVP2	90.00
3	51.1 kPa (7.41 p.s.i.)	IMVP3	85.00
4	46.7 kPa (6.77 p.s.i.)	IMVP4	140.00
5	22.5 kPa (3.26 p.s.i.)	IMVP5	65.00
6	7.1 kPa (1.03 p.s.i.)	IMVP6	65.00

**Category: PHYSICAL TESTING STANDARDS**

**Subcategory: ASTM D56 Tag Closed Cup Flash Point**

**Standards are packaged in 250ml amber glass bottles and verified by consensus analysis.**

**Table: ASTM D56 Tag Closed Cup Flash Point**

<b>Catalog #</b>	<b>Nominal, Flash Point</b>	<b>Price</b>
IMTCC68	67 C	\$185.00

**Category: PHYSICAL TESTING STANDARDS**

**Subcategory: ASTM D86 Group 4 Distillation Standard**

**The group 4 standard is a diesel oil whose distillation range is from 410 F to 670 F, (210 to 355C) and was verified by consensus analysis.**

**Table: ASTM D86 Group 4 Distillation Standard**

<b>Catalog #</b>	<b>Product</b>	<b>Price</b>
IMD86-4-1	Distillation Std. 0.25L	\$170.00
IMD86-4-2	Distillation Std. 0.50L	\$310.00

**Category: PHYSICAL TESTING STANDARDS**

**Subcategory: ASTM D86 Synthetic Distillation Standard**

**The automatic distillation apparatus duplicated the distillation conditions of the manual method. The increased reliance on electronic control requires an independent standard to verify that the apparatus is performing correctly. Analytical Services has introduced a synthetic blend of hydrocarbons that boil in the temperature range specified in ASTM D86 distillation groups 1 and 2. The group 1 and 2 standard covers the boiling range 129F to 368F, (54 to 187C) and was verified by consensus analysis with twelve refinery laboratories.**

**Table: ASTM D86 Synthetic Distillation Standard**

<b>Catalog #</b>	<b>Product</b>	<b>Price</b>
IMD86-1	Synthetic Distillation Std. 0.5L	\$175.00
IMD86-2	Synthetic Distillation Std. 2 x 0.5L	\$310.00
IMD86-3	Synthetic Distillation Std. 4 x 0.5L	\$1,000.00

<b>Category: PHYSICAL TESTING STANDARDS</b>		
<b>Subcategory: ASTM D92 Cleveland Open Cup Flash Point</b> Standards are packaged in 250ml amber glass bottles and verified by consensus analysis.		
<b>Table: ASTM D92 Cleveland Open Cup Flash Point</b>		
Catalog #	Nominal, Flash Point	Price
IMFP200	200 C	\$135.00
IMFP230	230 C	\$135.00

<b>Category: PHYSICAL TESTING STANDARDS</b>		
<b>Subcategory: ASTM D93 Pensky Martin Flash Point</b> Standards are packaged in 250ml amber glass bottles and verified by consensus analysis.		
<b>Table: ASTM D93 Pensky Martin Flash Point</b>		
Catalog #	Nominal, Flash Point	Price
IMFP60	65 C	\$135.00
IMFP93	93 C	\$135.00

<b>Category: PHYSICAL TESTING STANDARDS</b>			
<b>Subcategory: Certified Flash Point Standards</b> These reference materials are stable, pure hydrocarbon with a method specific flash point determined by an inter-laboratory study. Standards are packaged in 250ml bottles.			
<b>Table: Certified Flash Point Standards</b>			
Product Code	Method	Nominal, Flash Point	Price
IMFP93	ASTM D93	93 C	\$155.00
IMFP65	ASTM D93	65 C	\$105.00
IMFP134	ASTM D93	134 C	\$155.00
IMFP67UD	ASTM D56	67 C	\$205.00