



Physical Properties ASTM Standards

AccuStandard offers a wide range of Physical Properties standards. As active members of ASTM technical committees D02 (Petroleum) and D16 (Aromatic Hydrocarbons), AccuStandard prepares and packages products for both Proficiency Testing Programs (PTP) and Inter-Laboratory Studies (ILS).

ASTM D56, D92, D93 Flash Point Standards

The reference material is a stable, pure hydrocarbon with a method specific flash point determined by using the ASTM Method # referenced.

ASTM #	Nominal Flash Point	Cat. No.	Unit	Nominal 500 mL fill
PMCC D93	60 °C	ASTM-P-132-01	250 mL	
PMCC D93	93 °C	ASTM-P-132-02	250 mL	
COC D92	200 °C	ASTM-P-132-03	250 mL	
COC D92	230 °C	ASTM-P-132-04	250 mL	
PMCC D93	65 °C	ASTM-P-133-01	250 mL	
PMCC D93	134 °C	ASTM-P-133-02	250 mL	
COC D92	138 °C	ASTM-P-133-03	250 mL	
TCC D56	67 °C	ASTM-P-133-04	250 mL	

ASTM D1015, D2386, D5972 Freezing Points of High Purity Hydrocarbons

Nominal Freezing Point	Cat. No.	Unit	Nominal 250 mL fill
- 50 °C	ASTM-P-129-01	250 mL	
- 45 °C	ASTM-P-129-02	250 mL	

ASTM D86 Distillation Standards

The automatic distillation apparatus duplicates 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. This synthetic blend of hydrocarbons boil in the temperature range specified in ASTM D86 distillation Groups 1 and 2, and a fuel oil that meets the group 4 criteria.

The Group 1 and 2 standards cover the boiling range 129-368°F (54-187°C). The Group 4 standard covers the range from 410-670°F (210-355°C).

Group	Description	Cat. No.	Unit
1, 2	Synthetic Distillation Standard	ASTM-P-126-01 ▲	500 mL
		ASTM-P-126-VAP ▲	2 x 500 mL
4	Distillation Standard	ASTM-P-127-01 ▲	250 mL
		ASTM-P-127-02 ▲	500 mL

▲ Hazardous fee required.



Distillation apparatus

ASTM D445 Viscosity Calibration Standards

Viscosity @ 40°C	Cat. No.	Unit	Nominal 500 mL fill
4 Cst	ASTM-P-128-01	500 mL	
7 Cst	ASTM-P-128-02	500 mL	
19 Cst	ASTM-P-128-03	500 mL	
61 Cst	ASTM-P-128-04	500 mL	
180 Cst	ASTM-P-128-05	500 mL	
520 Cst	ASTM-P-128-06	500 mL	



Viscosity testing standards

ASTM D611 Aniline Point Standards

The accuracy of automated aniline point apparatus can be verified using a range of standards whose aniline points are determined using ASTM D611 (Method A) and ASTM D611 (Method E). Standards are packaged in 20 mL ampules in an inert atmosphere.

Method 611(A)

Nominal Aniline Pt.	Cat. No.	Unit
	D-611-SET	5 x 20 mL
0°C	D-611-01	20 mL
30°C	D-611-02	20 mL
55°C	D-611-03	20 mL
68°C	D-611-04	20 mL
94°C	D-611-05	20 mL

Method 611(E)

Nominal Aniline Pt.	Cat. No.	Unit
	D-611E-SET	3 x 20 mL
43 °C	D-611E-01	20 mL
62 °C	D-611E-02	20 mL
77 °C	D-611E-03	20 mL
Pure Aniline	ASTM-P-134-PAK	5 x 15 mL

Technical Note

For routine purposes pure Aniline is packaged in ampules under dry nitrogen. This minimizes the risk of oxidation.

Additional Testing Standards and Method Cross Reference Table (ASTM, IP, ISO, DIN, JIS, AFNOR)

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Physical Properties ASTM

ASTM D1744, E1064, D4377 Water in Liquid Petroleum Products by Karl Fischer D4928, D6304

Standards are available for coulometric Karl Fischer titrations and are packaged in 2 mL, 5 mL, and 20 mL ampules in sets of 5 and 10. The following concentrations are available:

Description	Cat. No.	Unit
Water content 60 µg/g	KF-0.6X-5ML-VAP	10 x 5 mL
Water content 100 µg/g	KF-1X-2ML-VAP	10 x 2 mL
	KF-1X-5ML-VAP	10 x 5 mL
	KF-1X-20ML-PAK	5 x 20 mL
Water content 1000 µg/g	KF-10X-2ML-VAP	10 x 2 mL
	KF-10X-5ML-VAP	10 x 5 mL
	KF-10X-20ML-PAK	5 x 20 mL
Water content 5000 µg/g	KF-50X-2ML-VAP	10 x 2 mL
	KF-50X-5ML-VAP	10 x 5 mL
	KF-50X-20ML-PAK	5 x 20 mL

Value Added Paks (Cat. No.'s ending in -VAP) provide multiple single units packaged together for both greater stability and cost savings.



Karl Fischer titrator

Value Added PAK
Packaged in ready to use quantities.

ASTM D2500, D5771, D5772, D5773 Cloud Point Calibration

Cloud Point, Approx. Value	Cat. No.	Unit
+ 5 °C	ASTM-P-131-01 ▲	250 mL
- 2 °C	ASTM-P-131-02 ▲	250 mL
- 10 °C	ASTM-P-131-03 ▲	250 mL
- 15 °C	ASTM-P-131-04 ▲	250 mL
- 20 °C	ASTM-P-131-05 ▲	250 mL

▲ Hazardous fee required.



Cloud Point

Cross-reference Table to match other Methods

ANALYSIS	ASTM	IP	ISO	DIN	JIS	AFNOR
Tag Flash Point	D56			51411	K 2580	M07-003
Distillation	D86	123	3405	51751	K 2254	M07-002
PMCC Flash Point	D93	34	2719	51758	K 2265	M07-019
Kinematic Viscosity	D445	71-1	3104	51562	K 2283	T60-100
Aniline Point	D611	2	2977	51775		M07-021
Hydrocarbon Types by FID	D1319	156	3837	51791	K 2536	M07-024
Water (Karl Fischer)	D1744		6296			T60-154
Freezing Point	D2386	16	3013	51421	K 2276	M07-048
Cloud Point	D2500	219	3015	51597	K 2269	T60-105
Water (Karl Fischer)	D4377	356	10336			
Water (Karl Fischer)	D4928	386	10337			