

New Biodiesel & other TPH Standards

Biodiesels

TPH Sets

Individual Fuel & Hydrocarbon Standards

All Products Produced & Tested under ISO 9001:2000 and ISO 17025 Quality System

AccuStandard has assembled the following sets to identify specific petroleum product types found during LUFT/LUST investigations. The sets can be purchased using one convenient Cat. No. or as individuals. Other concentrations are listed below.

Complete Set of Total Petroleum Hydrocarbon (TPH) Pattern Recognition Standards

Motor Fuels & Lubricating Oils Set

<u>TPH-001-R1-SET</u>		13 x 1 mL
Each in 20 µg/mL	Solvent	Cat. No.
Regular unleaded	MeOH	GA-001-40X
Regular leaded	MeOH	GA-002-40X
Premium	MeOH	GA-003-40X
RFA Gasoline (oxygenate free)	MeOH	GA-005-40X
#2 Diesel (conventional)	CH ₂ Cl ₂	FU-009-D-40X
#1 Diesel (low sulfur)	CH ₂ Cl ₂	FU-013-D-40X
#2 Diesel (extra low sulfur)	CH ₂ Cl ₂	FU-017-D-40X
Arctic Diesel	CH ₂ Cl ₂	FU-023-D-40X
SAE 30 W motor oil	CH ₂ Cl ₂	FU-018-D-40X
SAE 40 W motor oil	CH ₂ Cl ₂	FU-019-D-40X
SAE 50 W motor oil	CH ₂ Cl ₂	FU-021-D-40X
Biodiesel 20 NEW	CH ₂ Cl ₂	FU-030-D-40X
Biodiesel 100 NEW	CH ₂ Cl ₂	FU-029-D-40X

Aviation Fuels & Oils Set

<u>TPH-003-SET</u>		10 x 1 mL
Each in 20 µg/mL	Solvent	Cat. No.
Aviation (gas) Grade 100 LL	CH ₂ Cl ₂	GA-004-D-40X
JP-4 Fuel	CH ₂ Cl ₂	FU-010-D-40X
JP-5 Fuel	CH ₂ Cl ₂	FU-012-D-40X
JP-7 Fuel	CH ₂ Cl ₂	FU-014-D-40X
JP-8 Fuel	CH ₂ Cl ₂	FU-015-D-40X
JP-10 Fuel (Cruise Missile)	CH ₂ Cl ₂	FU-022-D-40X
JP-TS	CH ₂ Cl ₂	FU-016-D-40X
Jet Fuel (type 1)	CH ₂ Cl ₂	FU-011-D-40X
Turbine (Jet A) Fuel	CH ₂ Cl ₂	FU-006-D-40X
Hydraulic oil	CH ₂ Cl ₂	FU-020-D-40X

Heating Fuel Oils Set

TPH-002-R1-SET

Each in 20 µg/mL	Solvent	Cat. No.
#1 Fuel Oil	CH ₂ Cl ₂	FU-001-D-40X
#2 Fuel Oil	CH ₂ Cl ₂	FU-002-D-40X
#3 Fuel Oil	CH ₂ Cl ₂	FU-003-D-40X
#4 Fuel Oil	CH ₂ Cl ₂	FU-004-D-40X
#6 Fuel Oil	CH ₂ Cl ₂	FU-008-D-40X
Kerosene	CH ₂ Cl ₂	FU-005-D-40X

6 x 1 mL

Household & Industrial Solvent Set

TPH-004-SET

Each in 20 µg/mL	Solvent	Cat. No.
Lacquer thinner	CH ₂ Cl ₂	HS-001S-D-40X
Mineral spirits	CH ₂ Cl ₂	HS-002S-D-40X
Naphtha	CH ₂ Cl ₂	HS-003S-D-40X
Turpentine	CH ₂ Cl ₂	HS-004S-D-40X
Stoddard	CH ₂ Cl ₂	HS-005S-D-40X

5 x 1 mL

Individual Fuel & Hydrocarbon Standards

	Concentration	Solvent	Cat. No.
5-alpha Androstane	1 mg/mL	CH ₂ Cl ₂	GRH-IS
	10 mg/mL	CH ₂ Cl ₂	GRH-IS-10X
Arctic Diesel Fuel	0.5 mg/mL	MeOH	FU-023
	20 mg/mL	MeOH	FU-023-40X
	20 mg/mL	CH ₂ Cl ₂	FU-023-D-40X
Aviation (gas) grade 100-LL	0.5 mg/mL	MeOH	GA-004
	20 mg/mL	MeOH	GA-004-40X
	20 mg/mL	CH ₂ Cl ₂	GA-004-D-40X
Biodiesel 20 NEW	0.5 mg/mL	CH ₂ Cl ₂	FU-030-D
	20 mg/mL	CH ₂ Cl ₂	FU-030-D-40X
Biodiesel 100 (consumer grade) NEW	0.5 mg/mL	CH ₂ Cl ₂	FU-029-D
	20 mg/mL	CH ₂ Cl ₂	FU-029-D-40X
p-Bromofluorobenzene	2.5 mg/mL	Acetone	GARH-SS
1-Chloro-4-fluorobenzene	2 mg/mL	MeOH	AK-101.0-IS-10X
1-Chlorooctadecane	1 mg/mL	Hexane	DRH-007-SS
1-Chloro-4-fluorobenzene	1 mg/mL	CH ₂ Cl ₂	GARH-IS
2,5-Dibromotoluene	50 µg/mL	MeOH	GRH-004-SS
	500 µg/mL	MeOH	GRH-004-SS-10X
	5 mg/mL	MeOH	GRH-004-SS-100X
Diesel Fuel	0.5 mg/mL	MeOH	FU-009
	5 mg/mL	CH ₂ Cl ₂	FU-009-D-10X
	20 mg/mL	MeOH	FU-009-40X
	20 mg/mL	CH ₂ Cl ₂	FU-009-D-40X
#1 Diesel - Low Sulfur	0.5 mg/mL	MeOH	FU-013
	20 mg/mL	MeOH	FU-013-40X
	20 mg/mL	CH ₂ Cl ₂	FU-013-D-40X

#2 Diesel Fuel	50	mg/mL	Acetone	AK-102-LCS-R1-10X
#2 Diesel Fuel (Extra Low Sulfur)	0.5	mg/mL	MeOH	FU-017
	5	mg/mL	CH ₂ Cl ₂	FU-017-D-10X
	5	mg/mL	Acetone	AK-102.0-LCS
	50	mg/mL	Acetone	AK-102.0-LCS-10X
	20	mg/mL	MeOH	FU-017-40X
	20	mg/mL	CH ₂ Cl ₂	FU-017-D-40X
#2 Diesel Fuel (Low Sulfur) - 25% Weathered	5	mg/mL	CH ₂ Cl ₂	FD2-W25-10X
#2 Diesel Fuel (Low Sulfur) - 50% Weathered	5	mg/mL	CH ₂ Cl ₂	FD2-W50-10X
#2 Diesel Fuel (Low Sulfur) - 75% Weathered	5	mg/mL	CH ₂ Cl ₂	FD2-W75-10X
#2 Diesel Fuel - 25% Weathered	5	mg/mL	CH ₂ Cl ₂	FD2-W25-R1-10X
#2 Diesel Fuel - 50% Weathered	5	mg/mL	CH ₂ Cl ₂	FD2-W50-R1-10X
#2 Diesel Fuel - 75% Weathered	5	mg/mL	CH ₂ Cl ₂	FD2-W75-R1-10X
Docosane	50	% w/w	Toluene	D-5186-91-PM
n-Dodecane	5	mg/mL	MeOH	AS-E0238
	1.5	% w/w	Isooctane	M-GRA-SCS-AS
#1 Fuel oil	0.5	mg/mL	MeOH	FU-001
	20	mg/mL	MeOH	FU-001-40X
	20	mg/mL	CH ₂ Cl ₂	FU-001-D-40X
#2 Fuel oil	0.5	mg/mL	MeOH	FU-002
	20	mg/mL	MeOH	FU-002-40X
	20	mg/mL	CH ₂ Cl ₂	FU-002-D-40X
#3 Fuel oil	0.5	mg/mL	Hexane	FU-003
	20	mg/mL	Hexane	FU-003-40X
	20	mg/mL	CH ₂ Cl ₂	FU-003-D-40X
#4 Fuel oil	0.5	mg/mL	Hexane	FU-004
	20	mg/mL	Hexane	FU-004-40X
	20	mg/mL	CH ₂ Cl ₂	FU-004-D-40X
#6 Fuel Oil	0.5	mg/mL	Hexane	FU-008
	20	mg/mL	Hexane	FU-008-40X
	20	mg/mL	CH ₂ Cl ₂	FU-008-D-40X
Gasoline - Regular, unleaded	0.5	mg/mL	MeOH	GA-001
	5	mg/mL	MeOH	GA-001-10X
	20	mg/mL	MeOH	GA-001-40X
	20	mg/mL	CH ₂ Cl ₂	GA-001-D-40X

Gasoline - Premium	0.5	mg/mL	MeOH	GA-003
	20	mg/mL	MeOH	GA-003-40X
	20	mg/mL	CH ₂ Cl ₂	GA-003-D-40X
Hydraulic Fluid	20	mg/mL	CH ₂ Cl ₂	FU-020-D-40X
Jet Reference Fuel - Type I	0.5	mg/mL	MeOH	FU-011
	20	mg/mL	MeOH	FU-011-40X
	20	mg/mL	CH ₂ Cl ₂	FU-011-D-40X
JP-4 (Jet Fuel)	0.5	mg/mL	MeOH	FU-010
	20	mg/mL	MeOH	FU-010-40X
	20	mg/mL	CH ₂ Cl ₂	FU-010-D-40X
JP-5 Fuel	0.5	mg/mL	MeOH	FU-012
	20	mg/mL	MeOH	FU-012-40X
	20	mg/mL	CH ₂ Cl ₂	FU-012-D-40X
JP-7 Fuel	0.5	mg/mL	MeOH	FU-014
	20	mg/mL	MeOH	FU-014-40X
	20	mg/mL	CH ₂ Cl ₂	FU-014-D-40X
JP-8 Fuel	0.5	mg/mL	MeOH	FU-015
	20	mg/mL	MeOH	FU-015-40X
	20	mg/mL	CH ₂ Cl ₂	FU-015-D-40X
JP-TS Aviation Fuel	0.5	mg/mL	MeOH	FU-016
	20	mg/mL	MeOH	FU-016-40X
	20	mg/mL	CH ₂ Cl ₂	FU-016-D-40X
JP-10 Aviation Fuel	0.5	mg/mL	MeOH	FU-022
	20	mg/mL	MeOH	FU-022-40X
	20	mg/mL	CH ₂ Cl ₂	FU-022-D-40X
Kerosene - 25% Weathered	5	mg/mL	CH ₂ Cl ₂	FK-W25-10X
Kerosene - 50% Weathered	5	mg/mL	CH ₂ Cl ₂	FK-W50-10X
Kerosene - 75% Weathered	5	mg/mL	CH ₂ Cl ₂	FK-W75-10X
Kerosene	0.5	mg/mL	MeOH	FU-005
	20	mg/mL	MeOH	FU-005-40X
	5	mg/mL	CH ₂ Cl ₂	FU-005-D-10X
	20	mg/mL	CH ₂ Cl ₂	FU-005-D-40X
Lacquer Thinner	1	gram	Neat	HS-001N
	0.5	mg/mL	MeOH	HS-001S
	20	mg/mL	MeOH	HS-001S-40X
	20	mg/mL	CH ₂ Cl ₂	HS-001S-D-40X
Mineral Spirits	1	gram	Neat	HS-002N
	0.5	mg/mL	MeOH	HS-002S
	20	mg/mL	MeOH	HS-002S-40X
	20	mg/mL	CH ₂ Cl ₂	HS-002S-D-40X

Naphtha	1	gram	Neat	HS-003N
	0.5	mg/mL	MeOH	HS-003S
	20	mg/mL	MeOH	HS-003S-40X
	20	mg/mL	CH ₂ Cl ₂	HS-003S-D-40X
Nonatriacontane	750	µg/mL	Chloroform	DRH-FL-SS-R1
	1	mg/mL	CS ₂	DRH-FL-SS
	3	mg/mL	CS ₂	DRH-FL-SS-3X
n-Pentadecane	5	mg/mL	MeOH	AS-E0241
RFA Gasoline (oxygenate-free)	0.5	mg/mL	MeOH	GA-005
	20	mg/mL	MeOH	GA-005-40X
	20	mg/mL	CH ₂ Cl ₂	GA-005-D-40X
RFA Gasoline	10	mL	NEAT	RFA-BLNK-10ML
SAE 5W30 Motor Oil	0.5	mg/mL	Hexane	FU-025-H
	20	mg/mL	Hexane	FU-025-H-40X
	20	mg/mL	CH ₂ Cl ₂	FU-025-D-40X
SAE 10W30 Motor Oil	0.5	mg/mL	Hexane	FU-026-H
	20	mg/mL	Hexane	FU-026-H-40X
	20	mg/mL	CH ₂ Cl ₂	FU-026-D-40X
SAE 10W40 Motor Oil	0.5	mg/mL	Hexane	FU-027-H
	20	mg/mL	Hexane	FU-027-H-40X
	20	mg/mL	CH ₂ Cl ₂	FU-027-D-40X
SAE 20W50 Motor Oil	0.5	mg/mL	Hexane	FU-028-H
	20	mg/mL	Hexane	FU-028-H-40X
	20	mg/mL	CH ₂ Cl ₂	FU-028-D-40X
SAE 30W Motor Oil	0.5	mg/mL	Hexane	FU-018-H
	20	mg/mL	Hexane	FU-018-H-40X
	20	mg/mL	CH ₂ Cl ₂	FU-018-D-40X
SAE 40W Motor Oil	0.5	mg/mL	Hexane	FU-019-H
	5	mg/mL	Acetone	AK-103.0-LCS
	20	mg/mL	Hexane	FU-019-H-40X
	20	mg/mL	CH ₂ Cl ₂	FU-019-D-40X
	25	mg/mL	Acetone:CH ₂ Cl ₂	AK-103.0-LCS-5X
SAE 50W Motor Oil	20	mg/mL	CH ₂ Cl ₂	FU-021-D-40X
Stoddard solvent	1	gram	Neat	HS-005N
	0.5	mg/mL	MeOH	HS-005S
	5	mg/mL	MeOH	HS-005S-10X
	20	mg/mL	MeOH	HS-005S-40X
	20	mg/mL	CH ₂ Cl ₂	HS-005S-D-40X
o-Terphenyl	200	µg/mL	Acetone	AK-102.0-SS

	1	mg/mL	CH ₂ Cl ₂	DRH-006-SS
	2	mg/mL	Acetone	AK-102.0-SS-10X
	2	mg/mL	Acetone	GRH-SS
n-Tetradecane	5	mg/mL	MeOH	AS-E0240
Tetracosane (5 mL)	500	µg/mL	CS ₂	D-5480-C40-5ML
	500	µg/mL	Chloroform	D-5480-C40-R1-5ML
n-Tridecane	5	mg/mL	MeOH	AS-E0239
1,2,3-Trimethylbenzene	1	mg/mL	CH ₂ Cl ₂	V-028S-D-10X
n-Triacontane-d62	500	µg/mL	Acetone	AK-103.0-SS
	5	mg/mL	Acetone:THF (3:1)	AK-103.0-SS-10X
	5	mg/mL	THF	DRH-SS
Turbine (Jet) fuel	0.5	mg/mL	MeOH	FU-006
	20	mg/mL	MeOH	FU-006-40X
	20	mg/mL	CH ₂ Cl ₂	FU-006-D-40X
Turpentine	1	gram	Neat	HS-004N
	0.5	mg/mL	MeOH	HS-004S
	20	mg/mL	MeOH	HS-004S-40X
	20	mg/mL	CH ₂ Cl ₂	HS-004S-D-40X
Unleaded Gasoline - 25% Weathered	5	mg/mL	MeOH	GA-W25-10X
Unleaded Gasoline - 50% Weathered	5	mg/mL	MeOH	GA-W50-10X
Unleaded Gasoline - 75% Weathered	5	mg/mL	MeOH	GA-W75-10X