

# ASTM METHODS

METHOD	TEKNOKROMA P/N	TEKNOKROMA Phase Recommendation	SAMPLE
D1983	TR-882162	<b>TR-CN100</b> 60 m x 0.25 mm x 0.2 µm	FAME analysis
D2245	TR-882162	<b>TR-CN100</b> 60 m x 0.25 mm x 0.2 µm	Oils and oil acids in solvent-reducible paints
D2267	TR-960462	<b>TR-TCEP</b> 60 m x 0.25 mm x 0.40 µm	Aromatics in light naphthas and aviation gasolines
D2306	TR-140262	<b>TRB-WAX</b> 60 m x 0.25 mm x 0.25 µm	C8 aromatic hydrocarbons
D2360	TR-140263	<b>TRB-WAX</b> 60 m x 0.32 mm x 0.25 µm	Trace impurities in monocyclic aromatic hydrocarbons and total aromatic determination
D2426	TR-111535	<b>TRB-1</b> 30 m x 0.53 mm x 1.5 µm	Butadiene dimer and styrene in butadiene concentrates
D2456	TR-141035	<b>TRB-WAX</b> 30 m x 0.53 mm x 1.0 µm	Polyhydric alcohols in alkyd resins
D2505	TR-115035	<b>TRB-1</b> 30 m x 0.53 mm x 5 µm	Ethylene, other hydrocarbons, and carbon dioxide in dioxide in high-purity ethylene
D2597		30% SE-30 on Chromosorb PAW 80/100 Molecular Sieve 13X 45/60	Analysis of demethanized hydrocarbon liquid mixtures containing nitrogen and carbon dioxide
D2580	TR-820423	<b>Meta.X5</b> 25 m x 0.32 mm x 0.4 µm	Phenols in water
	TR-151035	<b>TRB-FFAP</b> 30 m x 0.53 mm x 1.0 µm	
D2600	TR-960462	<b>TR-TCEP</b> 60 m x 0.25 mm x 0.4 µm	Aromatic traces in light saturated hydrocarbons
	TR-141223	<b>TRB-WAX</b> 25 m x 0.32 mm x 1.2 µm	
D2743	TR-882162	<b>TR-CN100</b> 60 m x 0.25 mm x 0.2 µm	Oil and oil acids
D2800	TR-882162	<b>TR-CN100</b> 60 m x 0.25 mm x 0.2 µm	FAME analysis
D2804	TR-141035	<b>TRB-WAX</b> 30 m x 0.53 mm x 1.0 µm	Purity of methyl ethyl ketone
	TR-571015	<b>TRB-F50</b> 15 m x 0.53 mm x 1.0 µm	
D2887	TR-192645	<b>TRB-2887</b> 10 m x 0.53 mm x 2.65 µm	Boiling range distribution of petroleum
Extended	TR-1108A5	<b>TRB-1</b> 5 m x 0.53 mm x 0.88 µm	
D2908	TR-601833	<b>TRB-624</b> 30 m x 0.32 mm x 1.8 µm	Volatile organics in water
	TR-603035	<b>TRB-624</b> 30 m x 0.53 mm x 3.0 µm	
	TR-140533	<b>TRB-WAX</b> 30 m x 0.32 mm x 0.5 µm	
	TR-141035	<b>TRB-WAX</b> 30 m x 0.53 mm x 1.0 µm	
D2998	TR-111033	<b>TRB-1</b> 30 m x 0.32 mm x 1.0 µm	Polyhydric alcohols in alkyd resins
D2999	TR-111535	<b>TRB-1</b> 30 m x 0.53 mm x 1.5 µm	Monopentaerythritol in commercial pentaerythritol
D3009	TR-140533	<b>TRB-WAX</b> 30 m x 0.32 mm x 0.5 µm	Composition of turpentine
	TR-141035	<b>TRB-WAX</b> 30 m x 0.53 mm x 1.0 µm	
D3054	TR-110553	<b>TRB-1</b> 50 m x 0.32 mm x 0.5 µm	Impurities in cyclohexane
D3086	TR-120752	<b>TRB-5</b> 50 m x 0.25 mm x 0.12 µm	Organochlorine pesticides in water
D3168	TR-111033	<b>TRB-1</b> 30 m x 0.32 mm x 1.0 µm	Polymers in emulsion paints
	TR-111535	<b>TRB-1</b> 30 m x 0.53 mm x 1.5 µm	
D3257		25%Bis-(2-cyanoethyl)formamide on Chromosorb PAW	Aromatics in mineral spirits
D3271	TR-141035	<b>TRB-WAX</b> 30 m x 0.53 mm x 1.0 µm	Solvent analysis in paints
D3304	TR-120752	<b>TRB-5</b> 50 m x 0.25 mm x 0.12 µm	PCBs in environmental materials
D3328	TR-113033	<b>TRB-1</b> 30 m x 0.32 mm x 3.0 µm	Comparison of waterborne petroleum oils
	TR-113035	<b>TRB-1</b> 30 m x 0.53 mm x 3.0 µm	
D3329	TR-141065	<b>TRB-WAX</b> 60 m x 0.53 mm x 1.0 µm	Purity of methyl isobutyl ketone
D3432	TR-111033	<b>TRB-1</b> 30 m x 0.32 mm x 1.0 µm	Toluene diisocyanates in urethane prepolymers
	TR-111535	<b>TRB-1</b> 30 m x 0.53 mm x 1,5 µm	
D3447	TR-115055	<b>TRB-1</b> 50 m x 0.53 mm x 5.0 µm	Purity of trichlorotrifluoroethane (CFC-113)
D3452	TR-111535	<b>TRB-1</b> 30 m x 0.53 mm x 1,5 µm	Identification of rubber
D3457	TR-882162	<b>TR-CN100</b> 60 m x 0.25 mm x 0.2 µm	FAME analysis
D3465	TR-115223	<b>TRB-1</b> 25 m x 0.32 mm x 0.52 µm	Purity of monomeric plasticizers
	TR-111535	<b>TRB-1</b> 30 m x 0.53 mm x 1.5 µm	
D3524	TR-110845	<b>TRB-1</b> 10 m x 0.53 mm x 0.88 µm	Diesel fuel diluent used in diesel engine oil
D3525		10% OV-101 on Chromosorb WAW 80/100	Gasoline diluent in used gasoline engine oils
D3534	TR-120252	<b>TRB-5</b> 50 m x 0.25 mm x 0.25 µm	PCBs in water

D3606	TR-510112	TRB-1ms 15 m x 0.25 mm x 0.1 µm	Benzene and toluene in gasoline
	TR-960462	TR-TCEP 60 m x 0.25 mm x 0.4 µm	
D3687	TR-140533	TRB-WAX 30 m x 0.32 mm x 0.5 µm	Volatile organic compounds
	TR-141035	TRB-WAX 30 m x 0.53 mm x 1.0 µm	
D3710	TR-1150J5	TRB-1 7.5 m x 0.53 mm x 5.0 µm	Boiling range distribution of gasoline and gasoline fractions
D3725	TR-151035	TRB-FFAP 30 m x 0.53 mm x 1.0 µm	Fatty acids in drying oils
D3760	TR-140263	TRB-WAX 60m x 0.32 mm x 0.25 µm	Analysis of isopropylbenzene (cumene)
	TR-110563	TRB-1 60 m x 0.32 mm x 0.5 µm	
D3797	TR-140563	TRB-WAX 60 m x 0.32 mm x 0.5 µm	Analysis of o-Xylene
D3798	TR-140563	TRB-WAX 60m x 0.32 mm x 0.5 µm	Analysis of p-Xylene
	TR-140263	TRB-WAX 60 m x 0.32 mm x 0.25 µm	
D3876	TR-111033	TRB-1 30 m x 0.32 mm x 1.0 µm	Methoxyl and hydroxypropyl substitution in cellulose ether products
	TR-111535	TRB-1 30 m x 0.53 mm x 1.5 µm	
D3962	TR-151035	TRB-FFAP 30 m x 0.53 mm x 1.0 µm	Impurities in styrene
D4059	TR-120252	TRB-5 50 m x 0.25 mm x 0.25 µm	PCBs in insulating liquids
D4275	TR-113033	TRB-1 30 m x 0.32 mm x 3.0 µm	Butylated hydroxy toluene in ethylene and ethylenevinylacetate polymers
	TR-113035	TRB-1 30 m x 0.53 mm x 3.0 µm	
D4367		10% SE-30 on Chromosorb WAW 80/100	Benzene in hydrocarbon solvents
		25% TCEP on Chromosorb PAW 80/100	
D4415	TR-150233	TRB-FFAP 30 m x 0.32 mm x 0.25 µm	Determination of dimer and acrylic acid
D4420	TR-510112	TRB-1ms 15 m x 0.25 mm x 0.1 µm	Aromatics in gasoline
	TR-960462	TR-TCEP 60 m x 0.25 mm x 0.4 µm	
D4492	TR-140263	TRB-WAX 60 m x 0.32 mm x 0.25 µm	Analysis of benzene
D4534	TR-960462	TR-TCEP 60 m x 0.25 mm x 0.4 µm	Benzene content of cyclic products
D4735	TR-151035	TRB-FFAP 30 m x 0.53 mm x 1.0 µm	Trace thiophene in refined benzene
D4768	TR-151035	TRB-FFAP 30 m x 0.53 mm x 1.0 µm	Phenol and cresol inhibitors in insulating oils
D4815	TR-115035 + TCEP precolumn	TRB-1 30 m x 0.53 mm x 5.0 µm + TCEP precolumn (56cm)	MTBE, ETBE, TAME, DIPE, tert-amyl alcohol, C1-C4 alcohols in gasoline
D4864	TR-121515	TRB-5 15 m x 0.53 mm x 1.5 µm	Traces of methanol in propylene
D5008	TR-115045	TRB-1 10 m x 0.53 mm x 5.0 µm	Ethyl methyl pentanol content and purity of 2-ethylhexanol
	TR-140233	TRB-WAX 30 m x 0.32 mm x 0.25 µm	
D5060	TR-140563	TRB-WAX 60m x 0.32 mm x 0.5 µm	Impurities in high-purity ethylbenzene
D5134	TR-110559	TRB-50.2PONA 50 m x 0.20 mm x 0.5 µm	Impurities in high-purity ethylbenzene
D5135	TR-140563	TRB-WAX 60m x 0.32 mm x 0.5 µm	Styrene analysis
D5307		10% UCW-982 on Chromosorb PAW 80/100	Boiling range distribution of crude oil-simulated distillation of crude oil through 538°C
		3% OV-1 on Chromosorb WHP 80/100	
		10% SE-30 on Chromosorb PAW 80/100	
D5310	TR-120232	TRB-5 30 m x 0.25 mm x 0.25 µm	Tar acid composition
	TR-252129	TRB-225 25 m x 0.20 mm x 0.20 µm	
D5399	TR-113045	TRB-1 10 m x 0.53 mm x 3.0 µm	Boiling point distribution of hydrocarbon solvents
D5441	TR-110592	TRB-1 100m x 0.25 mm x 0.5 µm	Analysis of MTBE
	TR-110559	TRB-50.2PONA 50 m x 0.20 mm x 0.5 µm	
D5442	TR-110232	TRB-1 30 m x 0.25 mm x 0.25 µm	Analysis of petroleum waxes
	TR-120232	TRB-5 15 m x 0.25 mm x 0.25 µm	
D5480	TR-115065	TRB-1 60 m x 0.53 mm x 5.0 µm	Engine oil volatility by GC
D5501	TR-110592	TRB-1 100m x 0.25 mm x 0.5 µm	Ethanol content of denatured fuel ethanol
D5504	TR-974033	TRB-SULFUR 30 m x 0.32 mm x 4.0 µm	Sulfur compounds in natural gas and gaseous fuels by GC and SCD
D5580	TR-115035 + TCEP precolumn	TRB-1 30 m x 0.53 mm x 5.0 µm + TCEP precolumn (56cm)	Aromatics in gasoline
D5599	TR-111062	TRB-1 60m x 0.25 mm x 1.0 µm	Oxygenates in gasoline by GC and oxygen selective flame ionization detector
D5623	TR-114033	TRB-1 30m x 0.32 mm x 4.0 µm	Sulfur compounds in light petroleum liquids by GC and sulfur selective detection
D5713	TR-110559	TRB-50.2PONA 50 m x 0.20 mm x 0.5 µm	Analysis of high-purity benzene for cyclohexane feedstock by capillary GC
D5769	TR-111062	TRB-1 60m x 0.25 mm x 1.0 µm	Determination of benzene, toluene and total aromatics in finished gasoline

	TR-115063	<b>TRB-1</b> 60 m x 0.32 mm x 5.0 µm	by GC/MS
<b>D5917</b>	TR-140263	<b>TRB-WAX</b> 60m x 0.32 mm x 0.25 µm	Trace impurities in monocyclic aromatic hydrocarbons by GC and external calibration
<b>D6144</b>	TR-111062	<b>TRB-1</b> 60m x 0.25 mm x 1.0 µm	alpha-Methylstyrene by capillary GC
<b>D6159</b>	TR-115035	<b>TRB-1</b> 30 m x 0.53 mm x 5.0 µm	Hydrocarbon impurities in ethylene
<b>E0202</b>	TR-812122	<b>Meta.WAX</b> 25 m x 0.25 mm x 0.2 µm	Analysis of glycols
<b>E1100</b>	TR-810535	<b>Meta.WAX</b> 30 m x 0.53 mm x 0.50 µm	Analysis of denaturated ethanol