

GC Column Selection by ASTM Specifications

Listed below are a few of our recommended Zebron columns for ASTM methods. Other possible columns can also be used for these analyses. Please contact Phenomenex for your specific GC column needs.

ASTM Methods

Method	Description	Phenomenex Recommendation	Page
D 1945	Natural gas	PLT-5A	118
D 1946	Reformed gas	PLT-5A, ZB-1	118, 89
D 1983	FAME analysis	BPX70	117
D 2245	Oils and oil acids in solvent-reducible paints	BPX70	117
D 2268	Analysis of n-heptane and iso-octane (high purity)	ZB-1	89
D 2306-96	Xylene isomers	ZB-WAX, ZB-WAX _{PLUS}	103, 104
D 2426	Butadiene and styrene in butadiene concentrates	ZB-1	89
D 2504	Non-condensable gases in C1-C3 hydrocarbons	PLT-5A, ZB-1*	118, 89
D 2580	Phenols in water	ZB-SemiVolatiles	109-111
D 2600	Aromatic traces in light saturated hydrocarbons	ZB-WAX	103
D 2743	Oil and oil acids	BPX70	117
D 2800	FAME analysis	BPX70	117
D 2804	Purity of methyl ethyl ketone	ZB-WAX	103
D 2887	SimDist analysis of petroleum fractions	ZB-1HT, ZB-1XT SimDist	91, 92
D 2908	Volatile organics in water	ZB-WAX, ZB-WAX _{PLUS}	103, 104
D 2998	Polyhydric alcohols in alkyd resins	ZB-1	89
D 2999	Monopentaerythritol in commercial pentaerythritol	ZB-1	89
D 3009	Composition of turpentine	ZB-WAX _{PLUS}	104
D 3054	Purity and benzene content of cyclohexane	ZB-1	89
D 3086	Organochlorine pesticides in water	ZB-5, ZB-5MSi, ZB-MR-1, ZB-MR-2	93, 94, 112-113
D 3168	Polymers in emulsion paints	ZB-1	89
D 3271	Solvent analysis in paints	ZB-WAX _{PLUS}	104
D 3304	PCBs in environmental materials	ZB-5, ZB-5MSi, ZB-MR-1, ZB-MR-2	93, 94, 112-113
D 3328	Comparison of waterborne petroleum oils	ZB-1	89
D 3329	Purity of methyl isobutyl ketone	ZB-WAX _{PLUS}	104
D 3416	Total hydrocarbons, methane and CO in air	PLT-5A	118
D 3432	Toluene diisocyanates in urethane prepolymers	ZB-1	89
D 3447	Purity of trichlorotrifluoroethane (CFC-113)	ZB-1, ZB-624	89, 106
D 3452	Identification of rubber	ZB-1HT	91
D 3457	FAME analysis	BPX70	117
D 3465	Purity of monomeric plasticizers	ZB-1	89
D 3524	Diesel fuel in lubricating oil (SAE 30)	ZB-1HT	91
D 3534	PCBs in water	ZB-5, ZB-5MSi	93, 94
D 3606	Benzene and toluene in gasoline	ZB-1	89
D 3687	Volatile organic compounds	ZB-WAX, ZB-WAX _{PLUS}	103, 104
D 3710	Gasoline fractions	ZB-1XT SimDist	92
D 3725	Fatty acids in drying oils	ZB-FFAP	105
D 3760	Analysis of cumene	ZB-WAX, ZB-WAX _{PLUS}	103, 104
D 3797	Analysis of o-xylene	ZB-WAX, ZB-WAX _{PLUS}	103, 104
D 3798	Analysis of p-xylene impurities	ZB-WAX, ZB-WAX _{PLUS}	103, 104
D 3876	Methoxyl and hydroxypropyl substitution in cellulose ether products	ZB-1	89
D 3962	Impurities in styrene	ZB-FFAP	105
D 4059	PCBs in insulating liquids	ZB-5MSi, ZB-5HT	94, 96-97
D 4275	Butylated hydroxy toluene in ethylene and ethylenevinylacetate polymers	ZB-1	89
D 4367	Benzene in hydrocarbon solvent	ZB-1	89
D 4420	Aromatics in gasoline	ZB-1	89
D 4735	Thiophene impurities in benzene	ZB-FFAP	105
D 4768	Phenol and cresol inhibitors in insulating oils	ZB-FFAP	105
D 5060	Impurities in ethylbenzene	ZB-FFAP, ZB-WAX, ZB-WAX _{PLUS}	105, 103, 104
D 5134	Petroleum naphthas through n-nonane	ZB-1	89
D 5135-95	Analysis of styrene	ZB-WAX, ZB-WAX _{PLUS}	103, 104
D 5501	Determination of denatured bioethanol	ZB-1, ZB-Bioethanol	89, 114
D 5580	Aromatics in finished gasoline	ZB-1	89
D 6352	Extended SimDist	ZB-1HT, ZB-1XT SimDist	91, 92
D 6584	Determination of glycerine in biodiesel	ZB-5HT	96-97
D 7169	Crude Oil; Vacuum distillates	ZB-1XT SimDist	92
E 0202	Analysis of glycols	ZB-WAX _{PLUS} , ZB-1	104, 89
E 1100	Analysis of denatured ethanol	ZB-WAX _{PLUS} , ZB-Bioethanol	104, 114

*Thick phase