

INDUSTRIAL & ENVIRONMENTAL CHEMICALS TEST KIT 3 (25 vials)**Product Code 8070**

Code	Name	Comment
IE 51	Adipic Acid	Used in the manufacture of nylon, polyester, polyurethane, polypropylene and PVC. Also used in detergents.
IE 52	Aluminium Hydroxide / Aluminium Trihydrate / Aluminium Hydrate	Used in vaccines, manufacture of glass and glazes, as a flame retardant in plastics, in paper manufacture, printing inks, detergents, for waterproofing fabrics, in mouthwashes and deodorants. Also used as a carrier of artificial colourings particular for uses involving colouring oils and fats, or where the product does not contain sufficient water to dissolve the colour. (Would not need to be shown in the list of ingredients when used as a colour carrier.
IE 53	Bisphenol A / BPA	Major constituent of plastics. Also used as a sealant and in adhesives including in dentistry. An endocrine disruptor, which can mimic the body's own hormones. Worrying levels found in breast milk and in people generally. In 2007, a consensus statement by 38 experts on Bisphenol A concluded that average levels in people are above those that cause harm to animals in laboratory experiments. In utero exposure to Bisphenol A may adversely affect male genital development, according to a Kaiser Permanente study published online in the journal Birth Defects Research (August 2011).
IE 54	1,3-Butadiene	An important industrial chemical used as in the production of synthetic rubber.
IE 55	2-Chloro-1,3-Butadiene / Chloroprene	Involved in the production of polychloroprene/neoprene.
IE 56	Dibromacetic Acid / DBA	Found in drinking water when chlorine disinfectants combine with naturally occurring organic matter.
IE 57	Ethylene Dichloride / 1,2-Dichloroethane	Used in the manufacture of vinyl chloride. Also an additive in petrol and so found in vehicle exhaust fumes.
IE 58	Glutaraldehyde	Glutaraldehyde-based disinfectants used for cleaning and sterilising equipment and surfaces in hospitals, dentists, etc. Used in manufacture of paper packaging that will be in contact with food.
IE 59	Heptane	A solvent used in the production of oils, and in manufacture of adhesives.
IE 60	Hexachlorobenzene / Perchlorobenzene	A chemical intermediate and a solvent for pesticides. Has been identified in breast milk. Research suggests it may be carcinogenic for humans.
IE 61	Hexane	A widely used industrial chemical used, for example, in pesticide manufacture, as a cleaning agent in the printing industry, and as a solvent for varnishes and adhesives.
IE 62	Perfluorononanoic Acid / PFNA	Used in industrial processes; some industrial chemicals may degrade into this chemical. A developmental toxicant and an immune system toxicant.
IE 63	Perfluorooctanesulfonic Acid / PFOS / Perfluorooctane Sulfonate / Heptadecafluorooctanesulfonic Acid	Used to make fire-fighting foams, in textiles, paper, and leather; in wax, polishes, paints, varnishes, and cleaning products for general use; in metal surfaces, and carpets.

Code	Name	Comment
IE 64	Perfluorooctanoic Acid / PFOA / C8/ Perfluorocaprylic Acid	Used in mixing process for dyes, detergents and personal care products; non-stick cookware and stain- and water-resistant coatings for carpets and fabrics. Detected in the blood of general populations in the low parts per billion range where single studies have associated it with infertility, higher cholesterol, and thyroid disease. In highly exposed groups, some studies have associated PFOA exposure with birth defects, increased cancer rates, and changes to lipid levels, the immune system and the liver.
IE 65	Phthalate Mix	Used to make plastics softer and more flexible. Wide spread health concerns. This vial contains Benzyl butyl phthalate, Bis(2-ethylhexyl) adipate, Bis(2-ethylhexyl) phthalate, Dibutyl phthalate, Diethyl phthalate, Dimethyl phthalate and Dioctyl phthalate.
IE 66	Polychlorinated Biphenyls (PCB) Mixed	A group of chemicals that have been banned but are still found in the environment, electrical equipment, wall coverings, paints and plastic. Have been found in breast milk. Couples with high PCB levels may experience difficulty getting pregnant. This vial contains 2-Chlorobiphenyl, Decachlorobiphenyl, 3,3'-Dichlorobiphenyl, 2,2',3,4',5,5',6-Heptachlorobiphenyl, 2,2',3,3',6,6'-Hexachlorobiphenyl, 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl, 2,2',3,3',4,4',5,5'-Octachlorobiphenyl, 2,3',4,5',6-Pentachlorobiphenyl, 2,2',4,4'-Tetrachlorobiphenyl and 2,4,5-Trichlorobiphenyl.
IE 67	Polyethylene / Polythene / PE	Most common plastic. This vial contains high-density polyethylene (HDPE) and low-density polyethylene (LDPE). Used to make milk bottles, washing up liquid bottles, children's toys, carrier bags, bin liners and industrial bags, Also used extensively for consumer packaging including shrink film and squeeze bottles for food, personal care products, etc.. Also found as carpet backing and in joint replacements.
IE 68	Polyethylene Terephthalate/ PET / PETE	Beverage, food and other liquid containers. Used in synthetic fibres. Trade names include Dacron, Diolen, Tergal, Terylene, Trevira, Cleartuf, Eastman PET, Polyclear, Hostaphan, Melinex and Mylar.
IE 69	Polylactic Acid / Polylactide / PLA	Biodegradable so use likely to increase. Beverage cups, microwavable disposable trays, deli containers, sandwich packaging, medical sutures and stents.
IE 70	Polymethylpentene	Coating for paper food containers for microwave and conventional ovens; used for gas permeable packaging, autoclavable medical and laboratory equipment, microwave components, and cookware.
IE 71	Polypropylene/ Polypropene / PP	Second most common plastic. Used for dishwasher-safe and microwavable food containers, drinking straws, yoghurt pots and margarine tubs, confectionery and tobacco packaging. Used for carpets under the trade names of Olefin, Astra, Zylon and Charisma. Other uses include toys, drinking straws, car/automobile interiors, artificial grass, bristles for brushes and brooms, thermal and cold weather sports clothing, and toner for photocopiers and printers.
IE 72	Polystyrene/ PS	Yoghurt pots, egg boxes, plastic cutlery and foam drink cups; protective packaging and insulation.
IE 73	Polytetrafluoroethylene / PTFE / Teflon	Used in non-stick cookware, plumbers' jointing tape, and as an additive in lubricants.
IE 74	Tetrachloroethylene / Perchloroethylene / PCE / Ethylene Tetrachloride/ PERC	A solvent commonly used in dry cleaning fluid, spot removers, aerosols, shoe polishes and typewriter correction fluid. Also used by car/automobile mechanics. High levels found in breast milk.

Code	Name	Comment
IE 75	Trichloroethylene	A solvent used to remove grease from textiles and metal parts, and in the extraction of vegetable oils. Restrictions on levels in drinking water.

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