

DRUM PUMPS & PUMPS

CHEMICAL CHART

CHEMICAL	RYTON (PPS)	VITON	TEFLON	BUNA N	EDPM	HYPALON	PVC
Acetic Acid	Excellent	Good	Excellent	Fair	Excellent	Fair	Severe Effect
Acetic Acid 20%	Excellent	Good	Excellent	Good	Excellent	Excellent	Severe Effect
Acetic Acid 80%	Excellent	Good	Excellent	Fair	Excellent	Fair	Fair
Acetone	Excellent	Severe Effect	Excellent	Severe Effect	Excellent	Fair	Severe Effect
Alcohols: Isopropyl	N/A	Excellent	Excellent	Good	Excellent	Excellent	Excellent
Ammonia, liquid	Excellent	Severe Effect	Excellent	Fair	Excellent	Severe Effect	Excellent
Antifreeze	N/A	Excellent	N/A	Excellent	Excellent	N/A	Excellent
Benzene	Excellent	Excellent	Excellent	Severe Effect	Severe Effect	Severe Effect	Fair
Boric Acid	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Bromine	Severe Effect	Excellent	Excellent	Severe Effect	Severe Effect	Severe Effect	Fair
Butanol (Butyl Alcohol)	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Fair
Chloric Acid	N/A	N/A	Excellent	N/A	N/A	N/A	Excellent
Chlorine Water	Severe Effect	Excellent	Excellent	Severe Effect	Fair	Fair	Excellent
Chromic Acid 10%	Excellent	Good	Excellent	Severe Effect	Fair	Fair	Excellent
Chromic Acid 30%	Good	Excellent	Excellent	Severe Effect	Good	Fair	Excellent
Chromic Acid 5%	Excellent	Excellent	Excellent	Severe Effect	Excellent	Good	Excellent
Chromic Acid 50%	Excellent	Excellent	Excellent	Severe Effect	Good	Fair	Severe Effect
Clorox (Bleach)	Severe Effect	Excellent	Excellent	Severe Effect	Good	Good	Excellent
Diesel Fuel	Excellent	Excellent	Excellent	Excellent	Severe Effect	Good	Excellent
Ethanol	N/A	Excellent	Excellent	Fair	Excellent	Excellent	Fair
Ethylene Glycol	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Fuel Oils	Excellent	Excellent	Good	Excellent	Severe Effect	Fair	Excellent
Gasoline, unleaded	Excellent	Excellent	Excellent	Excellent	Severe Effect	Excellent	Fair
Glycerin	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Heptane	Excellent	Excellent	Excellent	Excellent	Severe Effect	Good	Fair
Hexane	Excellent	Excellent	Excellent	Excellent	Severe Effect	Good	Good
Hydrochloric Acid 100%	Severe Effect	Excellent	Excellent	Severe Effect	Severe Effect	Severe Effect	Severe Effect
Hydrochloric Acid 20%	Severe Effect	Excellent	Excellent	N/A	Excellent	Excellent	Excellent
Hydrochloric Acid 37%	Severe Effect	Excellent	Excellent	Good	Fair	Good	Good
Hydrofluoric Acid 100%	Severe Effect	Good	Excellent	Severe Effect	Severe Effect	Good	Fair
Hydrofluoric Acid 20%	Excellent	Excellent	Excellent	Severe Effect	Severe Effect	Good	Good
Hydrofluoric Acid 50%	Excellent	Good	Excellent	Severe Effect	Severe Effect	Good	Good
Hydrofluoric Acid 75%	Good	Good	Excellent	Severe Effect	Fair	Good	Fair
Hydrogen Peroxide 10%	Excellent	Excellent	Excellent	Severe Effect	Excellent	Severe Effect	Excellent
Hydrogen Peroxide 100%	Fair	Excellent	Excellent	Severe Effect	Severe Effect	Severe Effect	Excellent
Hydrogen Peroxide 30%	Excellent	Excellent	Excellent	Severe Effect	Good	Severe Effect	Excellent
Hydrogen Peroxide 50%	N/A	Excellent	Excellent	Severe Effect	Good	Severe Effect	Excellent
Ink	N/A	Excellent	Excellent	Excellent	N/A	N/A	Fair
Iodine	Severe Effect	Excellent	Excellent	Good	Good	Severe Effect	Excellent
Jet Fuel (JP3, JP4, JP5)	Excellent	Excellent	Excellent	Excellent	Severe Effect	Severe Effect	Fair
Kerosene	Excellent	Excellent	Excellent	Excellent	Severe Effect	Severe Effect	Excellent
Ketones	Excellent	Severe Effect	Excellent	Severe Effect	Excellent	N/A	Severe Effect
Lacquer Thinners	N/A	Severe Effect	Excellent	Severe Effect	Severe Effect	Severe Effect	Severe Effect
Lacquers	N/A	Severe Effect	Excellent	Severe Effect	Severe Effect	Severe Effect	Severe Effect
Methanol (Methyl Alcohol)	Excellent	Fair	Excellent	Excellent	Excellent	Excellent	Excellent
Methyl Ethyl Ketone	Excellent	Severe Effect	Excellent	Severe Effect	Excellent	Severe Effect	Severe Effect
Mineral Spirits	Excellent	Excellent	Excellent	Excellent	Severe Effect	Fair	Excellent
Motor oil	Excellent	N/A	Excellent	Excellent	Severe Effect	N/A	Good
Naphtha	Excellent	Excellent	Good	Excellent	Severe Effect	Severe Effect	Excellent
Nitric Acid (20%)	Fair	Excellent	Excellent	Severe Effect	Excellent	Severe Effect	Excellent
Nitric Acid (50%)	Fair	Excellent	Excellent	Severe Effect	Severe Effect	Severe Effect	Good
Nitric Acid (5-10%)	Good	Excellent	Excellent	Severe Effect	Excellent	Good	Excellent
Nitric Acid (Concentrated)	Fair	Excellent	Excellent	Severe Effect	Severe Effect	Severe Effect	Good
Oils: Diesel Fuel (20, 30, 40, 50)	Excellent	Excellent	Excellent	Excellent	Severe Effect	Good	Good
Oils: Fuel (1, 2, 3, 5A, 5B, 6)	Excellent	Good	Excellent	Good	Severe Effect	Severe Effect	Excellent
Oils: Hydraulic Oil (Petro)	Severe Effect	Excellent	Excellent	Excellent	Severe Effect	Excellent	Excellent
Oils: Hydraulic Oil (Synthetic)	N/A	Excellent	Excellent	Severe Effect	Excellent	Excellent	Excellent
Oils: Linseed	Good	Excellent	Excellent	Excellent	Severe Effect	Fair	Excellent
Oils: Mineral	Excellent	Excellent	Excellent	Excellent	Severe Effect	Good	Good
Phosphoric Acid (>40%)	Excellent	Excellent	Excellent	Severe Effect	Good	Good	Good
Phosphoric Acid (crude)	Excellent	Excellent	Excellent	Severe Effect	Good	Good	Good
Phosphoric Acid (molten)	N/A	N/A	N/A	N/A	N/A	N/A	Severe Effect
Phosphoric Acid (S40%)	Excellent	Excellent	Excellent	Severe Effect	Good	Good	Good
Potassium Hydroxide (Caustic Potash)	Excellent	Good	Excellent	Good	Excellent	Excellent	Excellent
Rust Inhibitors	N/A	Excellent	N/A	Excellent	N/A	N/A	N/A
Sea Water	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Soap Solutions	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Sodium Hydroxide (20%)	Excellent	Fair	Excellent	Excellent	Good	Excellent	Excellent
Sodium Hydroxide (50%)	Excellent	Severe Effect	Excellent	Excellent	Good	Excellent	Excellent
Sodium Hydroxide (80%)	Excellent	Severe Effect	Excellent	Severe Effect	Good	Excellent	Excellent
Sodium Hypochlorite (<20%)	Excellent	Excellent	Excellent	Good	Good	Excellent	Excellent
Sodium Hypochlorite (100%)	Excellent	Excellent	Excellent	Severe Effect	Good	Good	Good
Stoddard Solvent	Excellent	Excellent	Excellent	Excellent	Severe Effect	N/A	Fair
Sulfuric Acid (<10%)	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Sulfuric Acid (10-75%)	Excellent	Excellent	Excellent	Good	Good	Good	Excellent
Sulfuric Acid (75-100%)	Excellent	Excellent	Excellent	Fair	Good	Fair	Severe Effect
Sulfuric Acid (cold concentrated)	Excellent	Good	Excellent	Severe Effect	Fair	Fair	Severe Effect
Sulfuric Acid (hot concentrated)	Severe Effect	Excellent	Excellent	Severe Effect	Severe Effect	Severe Effect	Severe Effect
Toluene (Toluol)	Excellent	Fair	Excellent	Severe Effect	Severe Effect	Severe Effect	Severe Effect
Trichloroethane	N/A	Excellent	Excellent	Severe Effect	Severe Effect	Severe Effect	Fair
Trisodium Phosphate	Excellent	Excellent	Excellent	Excellent	Excellent	N/A	Excellent
Turpentine	Excellent	Excellent	Excellent	N/A	Severe Effect	Severe Effect	Severe Effect
Vinegar	Excellent	Excellent	Excellent	Good	Excellent	Excellent	Good
Water, Deionized	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Water, Distilled	Excellent	Excellent	Excellent	Excellent	Excellent	N/A	Excellent
Water, Fresh	Excellent	Excellent	Excellent	Excellent	Excellent	N/A	Good
Water, Salt	Excellent	Excellent	Excellent	Excellent	Excellent	N/A	Good
Xylene	Excellent	Good	Excellent	Severe Effect	Severe Effect	Severe Effect	Severe Effect



DRUM PUMPS & PUMPS

CHEMICAL CHART

CHEMICAL	POLYPROPYLENE	NYLON	ALUMINUM	CAST IRON	304 STAINLESS STEEL	316 STAINLESS STEEL	BRASS
Acetic Acid	Good	Severe Effect	Good	Severe Effect	Severe Effect	Good	Severe Effect
Acetic Acid 20%	Excellent	Severe Effect	Good	Severe Effect	Good	Excellent	Severe Effect
Acetic Acid 80%	Excellent	Severe Effect	Good	Severe Effect	Severe Effect	Good	Severe Effect
Acetone	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Alcohols: Isopropyl	Excellent	Severe Effect	Good	Excellent	Good	Good	N/A
Ammonia, liquid	Excellent	Good	Excellent	Excellent	Good	Excellent	N/A
Antifreeze	Severe Effect	Severe Effect	Excellent	Excellent	N/A	Excellent	N/A
Benzene	Severe Effect	Excellent	Good	Excellent	Good	Good	N/A
Boric Acid	Excellent	Good	Severe Effect	Severe Effect	Good	Excellent	N/A
Bromine	Severe Effect	Severe Effect	Severe Effect	N/A	Severe Effect	Severe Effect	N/A
Butanol (Butyl Alcohol)	Excellent	Good	Good	N/A	Excellent	Excellent	N/A
Chloric Acid	N/A	Severe Effect	Severe Effect	Severe Effect	Severe Effect	Fair	Severe Effect
Chlorine Water	Severe Effect	Fair	Severe Effect	N/A	Fair	Fair	Severe Effect
Chromic Acid 10%	Severe Effect	Severe Effect	Severe Effect	Severe Effect	Good	Good	Severe Effect
Chromic Acid 30%	Severe Effect	Severe Effect	Severe Effect	Severe Effect	Good	Good	Severe Effect
Chromic Acid 5%	Severe Effect	Severe Effect	Fair	Severe Effect	Good	Excellent	Severe Effect
Chromic Acid 50%	Severe Effect	Severe Effect	Severe Effect	Severe Effect	Fair	Good	Severe Effect
Clorox® (Bleach)	Severe Effect	Excellent	Excellent	Severe Effect	Excellent	Excellent	N/A
Diesel Fuel	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Ethanol	Excellent	Good	Good	Good	Excellent	Excellent	Excellent
Ethylene Glycol	Good	Excellent	Excellent	Excellent	Good	Good	Good
Fuel Oils	Excellent	Excellent	Fair	Excellent	Excellent	Excellent	Good
Gasoline, unleaded	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	N/A
Glycerin	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Good
Heptane	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Hexane	Good	Good	Excellent	Excellent	Excellent	Excellent	Excellent
Hydrochloric Acid 100%	Good	Severe Effect	Severe Effect	Severe Effect	Severe Effect	Severe Effect	Severe Effect
Hydrochloric Acid 20%	Good	Severe Effect	Severe Effect	Severe Effect	Severe Effect	Severe Effect	N/A
Hydrochloric Acid 37%	Fair	Severe Effect	Severe Effect	Severe Effect	Severe Effect	Severe Effect	N/A
Hydrofluoric Acid 100%	Fair	Severe Effect	Severe Effect	Severe Effect	Good	Good	N/A
Hydrofluoric Acid 20%	Excellent	Fair	Severe Effect	Severe Effect	Severe Effect	Severe Effect	N/A
Hydrofluoric Acid 50%	Excellent	Severe Effect	Severe Effect	Severe Effect	Severe Effect	Severe Effect	N/A
Hydrofluoric Acid 75%	Fair	Severe Effect	Severe Effect	Severe Effect	Severe Effect	Severe Effect	N/A
Hydrogen Peroxide 10%	Excellent	Fair	Excellent	Fair	Good	Good	N/A
Hydrogen Peroxide 100%	Good	Severe Effect	Excellent	Good	Good	Excellent	Severe Effect
Hydrogen Peroxide 30%	Good	Severe Effect	Excellent	Good	Good	Good	N/A
Hydrogen Peroxide 50%	Good	Severe Effect	Excellent	N/A	Good	Excellent	N/A
Ink	N/A	Fair	N/A	Severe Effect	Fair	Fair	N/A
Iodine	Fair	Excellent	Excellent	Severe Effect	Severe Effect	Severe Effect	N/A
Jet Fuel (JP3, JP4, JP5)	Excellent	Fair	Excellent	Excellent	Excellent	Excellent	N/A
Kerosene	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Ketones	Fair	Excellent	Good	N/A	Excellent	Excellent	N/A
Lacquer Thinners	Severe Effect	Excellent	Excellent	Fair	Excellent	Excellent	Excellent
Lacquers	Severe Effect	Excellent	Excellent	Fair	Excellent	Excellent	N/A
Methanol (Methyl Alcohol)	Excellent	Good	Excellent	Excellent	Excellent	Excellent	Excellent
Methyl Ethyl Ketone	Good	Excellent	Good	Excellent	Excellent	Excellent	Excellent
Mineral Spirits	Good	Excellent	Excellent	Good	Excellent	Excellent	N/A
Motor oil	Excellent	Excellent	Excellent	N/A	Excellent	Excellent	N/A
Naphtha	Good	Excellent	Excellent	Good	Excellent	Excellent	Excellent
Nitric Acid (20%)	Excellent	Severe Effect	Severe Effect	Severe Effect	Excellent	Excellent	Severe Effect
Nitric Acid (50%)	Good	Severe Effect	Severe Effect	Severe Effect	Excellent	Excellent	Severe Effect
Nitric Acid (5-10%)	Excellent	Severe Effect	Excellent	Severe Effect	Excellent	Excellent	Severe Effect
Nitric Acid (Concentrated)	Severe Effect	Severe Effect	Severe Effect	Severe Effect	Excellent	Excellent	Severe Effect
Oils: Diesel Fuel (20, 30, 40, 50)	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	N/A
Oils: Fuel (1, 2, 3, 5A, 5B, 6)	Good	Excellent	Fair	Excellent	Excellent	Excellent	Good
Oils: Hydraulic Oil (Petro)	Severe Effect	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Oils: Hydraulic Oil (Synthetic)	Severe Effect	Excellent	Excellent	N/A	Excellent	Excellent	Excellent
Oils: Linseed	Excellent	Excellent	Good	N/A	Excellent	Excellent	Good
Oils: Mineral	Excellent	Excellent	Excellent	N/A	Excellent	Excellent	Excellent
Phosphoric Acid (>40%)	Excellent	Good	Fair	Severe Effect	Severe Effect	Severe Effect	Severe Effect
Phosphoric Acid (crude)	Good	Good	Fair	Severe Effect	Severe Effect	Good	N/A
Phosphoric Acid (molten)	Severe Effect	N/A	Fair	N/A	N/A	Fair	N/A
Phosphoric Acid (S40%)	Excellent	Good	Fair	Severe Effect	Severe Effect	Fair	Severe Effect
Potassium Hydroxide Caustic Potash)	Excellent	Fair	Severe Effect	Good	Good	Excellent	Severe Effect
Rust Inhibitors	Excellent	N/A	N/A	Fair	Excellent	Excellent	N/A
Sea Water	Excellent	Excellent	Good	Severe Effect	Fair	Fair	Severe Effect
Soap Solutions	Excellent	Excellent	Fair	Excellent	Excellent	Excellent	Good
Sodium Hydroxide (20%)	Excellent	Excellent	Severe Effect	Excellent	Good	Good	Good
Sodium Hydroxide (50%)	Excellent	Excellent	Severe Effect	Severe Effect	Good	Good	Severe Effect
Sodium Hydroxide (80%)	Excellent	Fair	Severe Effect	Severe Effect	Fair	Good	Severe Effect
Sodium Hypochlorite (<20%)	Excellent	Severe Effect	Severe Effect	Severe Effect	Fair	Fair	Severe Effect
Sodium Hypochlorite (100%)	Good	Severe Effect	Severe Effect	Severe Effect	Severe Effect	Severe Effect	Severe Effect
Stoddard Solvent	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	N/A
Sulfuric Acid (<10%)	Excellent	Fair	Severe Effect	Fair	Severe Effect	Good	N/A
Sulfuric Acid (10-75%)	Excellent	Severe Effect	Severe Effect	Severe Effect	Severe Effect	Severe Effect	N/A
Sulfuric Acid (75-100%)	Fair	Severe Effect	Severe Effect	Severe Effect	Fair	Severe Effect	N/A
Sulfuric Acid (cold concentrated)	Excellent	Severe Effect	Good	Severe Effect	Fair	Good	N/A
Sulfuric Acid (hot concentrated)	Severe Effect	Severe Effect	Severe Effect	Severe Effect	Severe Effect	Fair	N/A
Toluene (Toluol)	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Trichloroethane	Fair	Fair	Severe Effect	Good	Good	Good	N/A
Trisodium Phosphate	Excellent	Excellent	Severe Effect	N/A	Good	Good	N/A
Turpentine	Severe Effect	Good	Excellent	N/A	Excellent	Excellent	Severe Effect
Vinegar	Excellent	Excellent	Severe Effect	Severe Effect	Excellent	Excellent	Severe Effect
Water, Deionized	Excellent	Excellent	Excellent	Severe Effect	Excellent	Excellent	Excellent
Water, Distilled	Excellent	Excellent	Excellent	Severe Effect	Excellent	Excellent	Excellent
Water, Fresh	Excellent	Excellent	Good	Severe Effect	Excellent	Excellent	Good
Water, Salt	Excellent	Excellent	Good	Severe Effect	Good	Good	Severe Effect
Xylene	Good	Excellent	Excellent	Good	Good	Good	Excellent