



## ACTIVATED CARBON

### INTERPRETATION

All substances are rated on a scale from 1 – 4.

1. Poor adsorption capacity. Substances that are not adsorbed by activated carbon fall into this category.
2. Moderate adsorption capacity. Substances are not highly absorbed but might be adsorbed sufficiently to give acceptable results under the particular operating conditions. These require individual checking.
3. Satisfactory adsorption capacity. Substances are adsorbed well, but not as efficiently as substances rated 4. One pound of activated carbon adsorbs about 10 to 25% of its weight – average about 1/6 (16.7%).
4. High adsorption capacity. Substances are adsorbed very efficiently. One pound of activated carbon adsorbs about 20% to 50% of its own weight – average about 1/3 (33-1/3%). This category includes most of the odor causing substances.

Note: Substances marked with \*\* are not adequately adsorbed by standard activated carbon.

### CARBON CAPACITY INDEX

Substance / Index	Substance / Index	Substance / Index	Substance / Index
Acetaldehyde** 2	Decane 4	Iodoform 4	Pentylene** 3
Acetic Acid 4	Decaying Substances 4	Irritants 4	Penlyne** 3
Acetic Anhydride 4	Deodorants 4	Isophorone 4	Perchloroethylene 4
Acetone 3	Detergents 4	Isoprene** 3	Perfumes, Cosmetics 4
Acetylene** 1	Dibromomethane 4	Isopropyl Acetate 4	Perspirations 4
Acrolain** 3	Dichlorodifluoromethane 4	Isopropyl Alcohol 4	Persistent Odors 4
Acrylic Acid 4	Dichloroethane 4	Isopropyl Ether 4	Pet Odors 4
Acrylonitrile 4	Dichloroethylene 4	Kerosene 4	Phenol 4
Adhesives 4	Dichloroethyl Ether 4	Kitchen Odors 4	Phoagene 3
Air-Wick 4	Dichloromonofluoromethane 3	Lactic Acid 4	Pitch 4
Alcoholic Beverages 4	Dichloronitroethane 4	Lingering Odors 4	Plastics 4
Amines** 2	Dichloropropane 4	Liquid Fuels 4	Pollen 3
Ammonia** 2	Dichlorotetrafluoroethane 4	Liquid Odors 4	Popcorn & Candy 4
Amyl Acetate 4	Diesel Fumes & Odors 4	Lubricants 4	Poultry Odors 4
Amyl Alcohol 4	Diethylamine** 3	Lysol 4	Propane 2
Amyl Ether 4	Diethyl Ketone 4	Masking Agents 4	Propionaldehyde** 3
Animal Odors 3	Dimethylaniline 4	Medicinal Odors 4	Propionic Acid 4
Anesthetics 3	Dimethylsulfate 4	Melons 4	Propyl Acetate 4
Aniline 4	Dioxane 4	Menthol 4	Propyl Alcohol 4
Antiseptics 4	Dipropyl Ketone 4	Mercaptans 4	Propyl Chloride 4
Asphalt Fumes 4	Disinfectants 4	Mesityl Oxide 4	Propyl Ether 4
Automobile Exhaust 3	Embalming Odors 4	Methane 1	Propyl Mercaptan 4
Bathroom Smells 4	Ethane 1	Methyl Acetate 3	Propylene** 2
Bleaching Solutions** 3	Ether 3	Methyl Acrylate 4	Propyne** 2
Body Odors 4	Ethyl Acetate 4	Methyl Alcohol 3	Purifying Substances 3
Borane 3	Ethyl Acrylic 4	Methyl Bromide 3	Putrescine 4
Bromine 4	Ethyl Alcohol 4	Methyl Buty Ketone 4	Pyridine 4
Burned Flesh 4	Ethyl Amine** 3	Methyl Cellosolve 4	Radiation Products 2
Burned Food 4	Ethyl Benzene 4	Methyl Cellosolve Acet. 4	Rancid Oils 4

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### CARBON CAPACITY INDEX

Substance / Index	Substance / Index	Substance / Index	Substance / Index				
Burning Fat	4	Ethyl Bromide	4	Methyl Chloride	3	Resins	4
Butadiene	3	Ethyl Chloride	3	Methyl Chloroform	3	Reodorants	4
Butane	2	Ethyl Ether	3	Methyl Ether	3	Ripening Fruits	4
Butanone	4	Ethyl Formate	3	Methyl Ethyl Ketone	4	Rubber	4
Butyl Acetate	4	Ethyl Mercaptan	3	Methyl Formate	3	Sauerkraut	4
Butyl Alcohol	4	Ethyl Silicate	4	Methyl Isobutyl Ketone	4	Sewer Odors	4
Butyl Cellosolve	4	Ethylene**	1	Methyl Mercaptan	4	Skatole	4
Butyl Chloride	4	Ethylene Chlorhydrin	4	Methylcyclohexane	4	Slaughtering Odors	3
Butyl Ether	4	Ethylene Dichloride	4	Methylcyclohexanol	4	Smog	4
Butylene**	2	EthyleneOxide	3	Methylcyclohexone	4	Soaps	4
Butyne**	2	Essential Oils	4	Methylene Chloride	4	Smoke	4
Butyraldehyde**	3	Eucalyptole	4	Mildew	3	Solvents	3
Butyric Acid	4	Exhaust Fumes	3	Mixed Odors	4	Sour Milks	4
Camphor	4	Fertilizer	4	Mold	3	Spilled Beverages	4
Cancer Odor	4	Film Processing Odor	3	Momochlorobenzene	4	Spoiled Foodstuffs	4
Caprylic Acid	4	Fish Odors	4	Monofluorotrichloro- methane	4	Stale Odors	4
Carbolic Acid	4	Floral Scents	4	Moth Balls	4	Stoddard Solvent	4
Carbon Disulfide	4	Fluorotrichloromethane	3	Naptha (Coal Tar)	4	Stuffiness	4
Carbon Dioxide**	1	Food Aromas	4	Naptha (Petroleum)	4	Styrene Monomer	4
Carbon Monoxide	1	Formaldehyde**	2	Napthalene	4	Sulfur Dioxide**	2
Carbon Tetrachloride	4	Formic Acid	3	Nicotine	4	Sulfur Trioxide**	3
Cellosolve	4	Fuel Gases	2	Nitric Acid**	3	Sulfuric Acid	4
Cellosolve Acetate	4	Fumes	3	Nitro Benzenes	4	Tar	4
Charred Materials	4	Gangrene	4	Nitroethane	4	Tarnishing Gases**	3
Cheese	4	Garlic	4	Nitrogen Dioxide**	2	Tetrachloroethane	4
Chlorine	3	Gasoline	4	Nitroglycerine	4	Theatrical Makeup Odors	4
Chlorobenzene	4	Heptane	4	Nitromethane	4	Tobacco Smoke Odors	4
Chlorobutadiene	4	Heptylene	4	Nitropropane	4	Toilet Odors	4
Chloroform	4	Hexane	3	Nonane	4	Toluene	4
Chloronitropropane	4	Hexylene**	3	Octalene	4	Toluidine	4
Chloropicrine	4	Hexyne**	3	Octane	4	Trichlorethylene	4
Cigarette Smoke Odors	4	Hospital Odors	4	Odorants	4	Trichloroethane	4
Citrus & Other Fruits	4	Household Smells	4	Onions	4	Turpentine	4
Cleaning Compounds	4	Hydrogen	1	Organic Chemicals	4	Urea	4
Combustion Odors	3	Hydrogen Bromide**	2	Ozone	4	Uric Acid	4
Cooking Odors	4	Hydrogen Chloride**	2	Packing House Odors	4	Valeric Acid	4
Corosive Gases	3	Hydrogen Cyanide**	2	Paint Odors	4	Valeraldehyde	4
Creosole	4	Hydrogen Fluoride**	2	Palmitic Acid	4	Varnish Fumes	4
Cresol	4	Hydrogen Iodide**	3	Paper Deteriorations	4	Vinegar	4
Crotonaldehyde	4	Hydrogen Salenide**	2	Paradichlorobenzene	4	Vinyl Chloride	3
Cyclohexane	4	Hydrogen Sulfine**	3	Paste & Glue	4	Waste Products	3
Cyclohexanol	4	Incense	4	Pentane	3	Wood Alcohol	3
Cyclohexanone	4	Indole	4	Pentanone	4	Xylene	4
Cholohexene	4	Iodine	4				