



### KEY

The number given represents typical or average conditions and might vary in specific instances. The values in the table have been assembled from many sources including laboratory tests and field experience.

The capacity index has the following meaning:

**4**

High Capacity

High capacity for all materials in this category. One pound takes up about 20% to 50% of its own weight - average about 1/3 (33-1/3%). This category includes most of the odor causing substances.

**3**

Satisfactory Capacity

Satisfactory capacity for all items in this category. These constitute good applications but the capacity is not as high as for category 4. Absorbs about 10 to 25% of its weight - average about 1/6 (16.7%).

**2**

Limited Capacity

Includes substances which are not highly absorbed but which might be taken up sufficiently to give good service under the particular conditions of operation. These require individual checking.

**1**

Low Capacity

Absorption capacity is low for these materials. Activated carbon cannot be satisfactorily used to remove them under normal circumstances.

*\*Straight activated carbon does not have much capacity for some reactive gases, such as ammonia, formaldehyde, etc. In some cases where the gas is chemically reactive, appropriate impregnated activated carbon can be recommended. Substances marked with an asterisk fall into this category.*

### SUBSTANCE

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* Acetaldehyde	2
Acetic acid	4
Acetic anhydride	4
Acetone	3
* Acetylene	1
* Acrolein	3
Acrylic acid	4
Aerylonitrile	4
Adhesives	4
Air-Wick	4
Alcoholic beverages	4
* Amines	2
* Ammonia	2
Amyl acetate	4
Amyl alcohol	4
Amyl ether	4
Animal odors	3
Anesthetics	3
Aniline	4
Antiseptics	4
Asphalt fumes	4
Automobile exhaust	3
Bathroom smells	4
Benzene	4
* Bleaching solutions	3
Body odors	4
Bromine	4
Burned flesh	4
Burned food	4
Burning fat	4
Butadiene	3
Butane	2
Butanone	4
Butyl acetate	4
Butyl alcohol	4
Butyl cellosolve	4
Butyl chloride	4
Butyl ether	4
* Butylene	2
* Butyne	2
* Butyraldehyde	3
Butyric acid	4
Camphor	4
Cancer odor	4
Caprylic acid	4
Carbolic acid	4
Carbon disulfide	4
* Carbon dioxide	1
Carbon monoxide	1
Carbon tetrachloride	4
Cellosolve	4
Cellosolve acetate	4

### SUBSTANCE

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Charred materials	4
Cheese	4
* Chlorine	3
Chlorobenzene	4
Chlorobutadiene	4
Chloroform	4
Chloronitropropane	4
Chloropicrin	4
Cigarette smoke odor	4
Citrus and other fruits	4
Cleaning compounds	4
Coal smoke odor	3
Combustion odors	3
Cooking odors	4
* Corrosive gases	3
Creosote	4
Cresol	4
Crotonaldehyde	4
Cyclohexane	4
Cyclohexanol	4
Cyclohexanone	4
Cyclohexene	4
Dead animals	4
Decane	4
Decaying substances	4
Deodorants	4
Detergents	4
Dibromoethane	4
Dichlorobenzene	4
Dichlorodifluoromethane	4
Dichloroethane	4
Dichloroethylene	4
Dichloroethyl ether	4
Dichloromonoflourmethane	3
Dichloronitroethane	4
Dichloropropane	4
Dichlorotetrafluoroethane	4
Diesel fumes	4
* Diethylamine	3
Diethyl ketone	4
Dimethylaniline	4
Dimethylsulfide	4
Dioxane	4
Dipropyl ketone	4
Disinfectants	4
Embalming odors	4
Epoxy	4
Ethane	1
Ether	3
Ethyl acetate	4
Ethyl acrylate	4
Ethyl alcohol	4

SUBSTANCE	INDEX	SUBSTANCE	INDEX	SUBSTANCE	INDEX
* Ethyl amine	3	Menthol	4	Pitch	4
Ethyl benzene	4	Mercaptans	4	Plastics	4
Ethyl bromide	4	Mesityl oxide	4	Poison gases	3
Ethyl chloride	3	Methane	1	Pollen	3
Ethyl ether	3	Methyl acetate	3	Popcorn and candy	4
Ethyl formate	3	Methyl acrylate	4	Poultry odors	4
Ethyl mercaptan	3	Methyl alcohol	3	Propane	2
Ethyl silicate	4	Methyl bromide	3	* Propionaldehyde	3
* Ethylene	1	Methyl butyl ketone	4	Propionic acid	4
Ethylene chlorohydrin	4	Methyl cellosolve	4	Propyl acetate	4
Ethylene dichloride	4	Methyl cellosolve acetate	4	Propyl alcohol	4
Ethylene oxide	3	Methyl chloride	3	Propyl chloride	4
Essential oils	4	Methyl chloroform	4	Propyl ether	4
Eucalyptole	4	Methyl ether	3	Propyl mercaptan	4
Exhaust fumes	3	Methyl ethyl ketone	4	* Propylene	2
Fertilizer	4	Methyl formate	3	* Propyne	2
Film processing odors	3	Methyl iodine	2	* Putrefying substances	3
Fish odors	4	Methyl isobutyl ketone	4	Putrescine	4
Floral scents	4	Methyl mercaptan	4	Pyridine	4
Fluorotrichloromethane	3	Methyl cyclohexane	4	Radiation products	2
Food aromas	4	Methylcyclohexanol	4	Rancid oils	4
* Formaldehyde	2	Methylcyclohexanone	4	Resins	4
* Formic acid	3	Methylene chloride	4	Reodorants	4
Fuel gases	2	Mildew	3	Ripening fruits	4
Fumes	3	Mixed odors	4	Rubber	4
Gangrene	4	Mold	3	Sauerkraut	4
Garlic	4	Molochlorobenzene	4	Sewer odors	4
Gasoline	4	Moth balls	4	Skatole	4
Glues	4	Mustard gas	4	Slaughtering odors	3
Heptane	4	Naphtha (coal tar)	4	Smog	4
Heptylene	4	Naphtha (petroleum)	4	Soaps	4
Hexane	3	Naphthalene	4	Smoke	4
* Hexylene	3	Nicotine	4	Solvents	3
* Hexyne	3	* Nitric acid	3	Sour milks	4
Hospital odors	4	Nitro benzenes	4	Spilled beverages	4
Household smells	4	Nitroethane	4	Spoiled food stuffs	4
Hydrogen	1	* Nitrogen dioxide	2	Stale odors	4
* Hydrogen bromide	3	Nitroglycerine	4	Stoddard solvent	4
* Hydrogen chloride	2	Nitromethane	4	Stiffness	4
* Hydrogen cyanide	3	Nitropropane	4	Styrene monomer	4
* Hydrogen fluoride	2	Nitrotoluene	4	* Sulfur dioxide	2
* Hydrogen iodide	3	Nonane	4	* Sulfer trioxide	3
* Hydrogen selenide	2	Noxious gases	3	Sulfuric acid	4
* Hydrogen sulfide	3	Octalene	4	Tar	4
Incense	4	Octane	4	* Tarnishing gases	3
Indole	4	Odorants	4	Tear gas	4
Industrial wastes	3	Onions	4	Tetrachloroethane	4
Ink odors	4	Organic chemicals	4	Tetrachloroethylene	4
Iodine	4	Ozone	4	Theatrical makeup odors	4
Idoform	4	Packing house odors	4	Tobacco smoke odor	4
Irritants	4	Paint and redecorating odors	4	Toilet odors	4
Isophorone	4	Palmitic acid	4	Toluene	4
* Isoprene	3	Paper deteriorations	4	Toluidine	4
Isopropyl acetate	4	Paradichlorobenzene	4	Trichloroethylene	4
Isopropyl alcohol	4	Paste and glue	4	Trichloroethane	4
Isopropyl ether	4	PCBs	4	Turpentine	4
Kerosene	4	Pentane	3	Urea	4
Kitchen odors	4	Pentanone	4	Uric acid	4
Lactic acid	4	* Pentylene	3	Valeric acid	4
Lingering odors	4	* Pentyne	3	Valeraldehyde	4
Liquid fuels	4	Perchloroethylene	4	Varnish fumes	4
Liquor odors	4	Perfumes, cosmetics	4	Vinegar	4
Lubricating oils and greases	4	Perspirations	4	Vinyl chloride	3
Lysol	4	Persistent odors	4	Volatile materials	3
Masking agents	4	Pet odors	4	Waste products	4
Medicinal odors	4	Phenol	4	Wood alcohol	3
Melons	4	Phosgene	3	Xylene	4