

### KEY



Low



Average



Above  
Average



High

Locations A contain the lowest amount of odor and D the highest; B and C represent levels in between. Many of the classifications are rather general, so it was necessary to pick a typical or average condition. The odor index for a specific situation could vary somewhat from that given in the table if special circumstances apply.

### SPACE

### INDEX

Adhesive manufacturing plants	C
Air conditioning systems	C
Aircraft	C
Airline terminals	B
Air raid shelters	D
Amusement parks	B
Animal rooms	D
Apartment buildings	A
Apartments	A
Apple storage	C
Art studios	B
Athletic clubs	C
Atomic processes	D
Auditoriums	B
Automobiles	C
Banks	B
Bank counting rooms	C
Bank safe deposit departments	C
Bank vaults	D
Banquet rooms	C
Barber shops	C
Bars	C
Basements	C
Bathrooms	B
Beauty shops	C
Bedrooms	A
Binderies	B
Biological processes	D

### SPACE

### INDEX

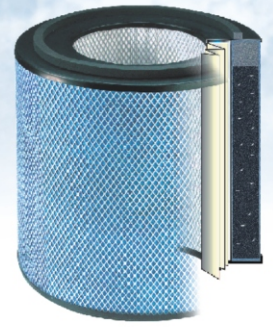
Bomb shelters	B
Book stacks	B
Breweries	C
Buses	C
Bus terminals	B
Cafeterias	B
Canneries	B
Central air conditioning systems	C
Chemical laboratories	D
Chemical plants	D
Chemical storage	D
Chlorine manufacture	D
Churches	A
Circulating fans	B
Circulating systems	B
Clinics	C
Closets	B
Club houses	C
Coating processes	D
Cocktail lounges	C
Cold storage plants	C
Collective protection shelters	D
Commercial establishments	B
Conference rooms	C
Conventions	C
Corridors	B
Creameries	C
Crowded rooms	C

### SPACE

### INDEX

Dairies	C
Darkrooms	C
Decalcomania production	D
Department stores	B
Dentists' offices	C
Dining rooms	B
Display parlors	B
Distilleries	C
Doctors' offices	C
Drafting rooms	B
Dressing rooms	B
Drug stores	C
Dry cleaning plants	C
Educational institutions	B
Electrical installations	B
Elevators	C
Embalming rooms	D
Enclosed spaces	C
Engine rooms	C
Equipment rooms	B
Examination rooms	C
Exhaust hoods	D
Factories	C
Federal offices	B
Fermentation plants	C
Fertilizer plants	D
Fish markets	C
Five-and-ten-cent stores	C
Food processing	C
Forced air furnaces	A
Fruit storages	C
Funeral homes	C
Game rooms	C
Garbage disposal plants	D
Gravity return furnaces	A
Greenhouses	B
Grocery stores	B
Grills	C
Homes	A
Hospital rooms	C
Hospitals	C
Hotels	B
Hotel rooms	B

SPACE	INDEX	SPACE	INDEX	SPACE	INDEX
Incinerators	C	Penal institutions	C	Silverware manufacture	B
Individual cubicals	C	Personnel protection	C	Soap manufacture	C
Industrial kitchens	C	Pet shops	C	Soda fountains	B
Industrial offices	B	Pharmaceutical plants	C	Specialty shops	C
Institutions	B	Photo dark rooms	C	State institutions	B
Instrument rooms	B	Photographic industry	C	Steamships	B
		Photographic studios	C	Stock rooms	B
Jewelry stores	B	Planes	B	Storage spaces	B
		Plastics manufacturing	C	Stores	B
Kitchens	C	Plating shops	C	Studios	C
Kitchen exhausts	D	Pollution control	D	Stuffy Rooms	B
		Poultry processing	C	Super Markets	B
Laboratories	D	Poultry sales rooms	C	Surgical Rooms	C
Laundries	C	Prescription departments	C	Switchboard Rooms	B
Leather processing	D	Printing plants	C		
Libraries	B	Private offices	B	Tanneries	C
Linoleum plants	D	Processing laboratories	C	Tar Processing	D
Live poultry rooms	C	Processing rooms	C	Taverns	C
Living rooms	A	Projection booths	D	Telephone Booths	C
Lobbies	B	Public assembly rooms	C	Telephone Exchanges	C
Locker rooms	C	Public buildings	B	Television Studios	C
Lounges	B	Public toilets	C	Test Cubicles	C
Lunch counters	C	Pulp and paper plants	D	Theaters	B
Lunch rooms	C			Theater lobbies	C
		Radio studios	C	Theater lounges	C
Maintenance departments	B	Railway cars	C	Ticket booths	B
Manufacturing plants	C	Railway stations	B	Toilets	C
Mausoleums	C	Reading rooms	B	Trains	B
Meat packing plants	D	Reception rooms	B	Train reservation offices	B
Meat markets	C	Recovery room, hospital	C		
Meat storage	C	Recreation halls	C	Undertakers	C
Metal industries	B	Recreation rooms	C	Unit air coolers	B
Military equipment	C	Refineries	C	Untidy rooms, hospital	C
Military installations	B	Refrigerated showcases	C	Unventilated spaces	C
Mixed cold storage	C	Rendering plants	D		
Morgues	C	Refrigerators	C	Varnish manufacture	D
Motels	B	Research buildings	C	Vegetable storage	C
Motion picture studios	C	Reservation offices	C	Vest systems	D
Municipal offices	B	Residences	A	Vestibules	C
Museums	B	Resin manufacturing	D	Veterinary hospitals	C
		Restrooms	B		
New processes	D	Restaurants	B	Waiting rooms	B
Night clubs	C	Restaurant kitchens	C	Wards, hospital	C
Nuclear processes	D	Retail shops	A	Warehouses	B
Nurseries	B	Rubber plants	D	Waste treatment plants	D
		Rumpus rooms	B	Window ventilators	B
Odor barriers	C			Wood working plants	B
Offices	B	Sales rooms	B	Work rooms	C
Office buildings	C	Sample rooms	B		
Officers' clubs	C	Schools	C	X-Ray darkrooms	C
Oilcloth production	D	Service departments	C		
Operating rooms	C	Sewage disposal plants	C	Yachts	B
		Sewer vents	D	Youth clubs	C
Paint departments	D	Show cases	C		
Paint plants	C	Sick rooms	C	Zoological gardens	C



### 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

Adsorption 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 INDEX

* 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 INDEX

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	Methylcyclohexane	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	Stuffiness	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
Iodoform	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