

**Mitoxantrone Hydrochloride:** Dark blue powder. Sparingly soluble in water; slightly soluble in methanol; practically insoluble in acetone, in acetonitrile, and in chloroform.

**Modafinil:** White to off-white, crystalline powder. Sparingly soluble in methanol; slightly soluble in absolute alcohol; very slightly soluble in water.

**Mometasone Furoate:** White to off-white powder. Melts at about 220°, with decomposition. Soluble in acetone and in methylene chloride.

**Monensin Sodium:** Off-white to tan, crystalline powder. Soluble in chloroform and in methanol; slightly soluble in water; practically insoluble in solvent hexane.

**Mono- and Di-glycerides:** Vary in consistency from yellow liquids, through ivory-colored plastics, to ivory white-colored solids (bead or flake forms). Soluble in alcohol, in ethyl acetate, in chloroform, and in other chlorinated hydrocarbons; insoluble in water. *NF category:* Emulsifying and/or solubilizing agent.

**Monobenzene Ointment:** Dispersible with, but not soluble in, water.

**Monoethanolamine:** Clear, colorless, moderately viscous liquid, having a distinctly ammoniacal odor. Miscible with water, with acetone, with alcohol, with glycerin, and with chloroform. Immiscible with ether, with solvent hexane, and with fixed oils, although it dissolves many essential oils. *NF category:* Emulsifying and/or solubilizing agent.

**Monoglyceride Citrate:** Soft white to ivory-colored, waxy solid with a lard-like consistency and bland odor. Dispersible in most common fat solvents and in alcohol. Insoluble in water.

**Monosodium Glutamate:** White, practically odorless, free-flowing crystals or crystalline powder. Freely soluble in water; sparingly soluble in alcohol. May have either a slightly sweet or a slightly salty taste. *NF category:* Flavors and perfumes.

**Monothioglycerol:** Colorless or pale yellow, viscous liquid, having a slight sulfidic odor. Is hygroscopic. Freely soluble in water; insoluble in ether. Miscible with alcohol. *NF category:* Antioxidant.

**Morantel Tartrate:** A white or pale yellow, crystalline powder. Very soluble in water and in alcohol; practically insoluble in ethyl acetate.

**Moricizine Hydrochloride:** White to off-white, crystalline powder. Melts at about 189°, with decomposition. Soluble in water and in alcohol.

**Morphine Sulfate:** White, feathery, silky crystals, cubical masses of crystals, or white, crystalline powder. Is odorless, and when exposed to air it gradually loses water of hydration. Darkens on prolonged exposure to light. Freely soluble in hot water; soluble in water; slightly soluble in alcohol but more so in hot alcohol; insoluble in chloroform and in ether.

**Moxifloxacin Hydrochloride:** Slightly yellow to yellow powder or crystals. Soluble in 0.1 N sodium hydroxide; sparingly soluble in water and in methanol; slightly soluble in 0.1 N hydrochloric acid, in dimethylformamide, and in alcohol; practically insoluble in methylene chloride, in acetone, in ethyl acetate, and in toluene; insoluble in *tert*-butyl methyl ether and *n*-heptane.

**Mumps Skin Test Antigen:** Slightly turbid liquid.

**Mumps Virus Vaccine Live:** Solid having the characteristic appearance of substances dried from the frozen state. The Vaccine is to be constituted with a suitable diluent just prior to use. Constituted vaccine undergoes loss of potency on exposure to sunlight.

**Mupirocin:** White to off-white, crystalline solid. Freely soluble in acetone, in chloroform, in dehydrated alcohol, and in methanol; slightly soluble in ether; very slightly soluble in water.

**Mycophenolate Mofetil:** White or almost white, crystalline powder. Its melting range is between 94° and 98°.

Freely soluble in acetone; soluble in methanol; sparingly soluble in dehydrated alcohol; slightly soluble in water.

**Myristic Acid:** Hard, white or faintly yellow, somewhat glossy, crystalline solid or white or yellow-white powder. Soluble in alcohol, in chloroform, and in ether; practically insoluble in water. *NF category:* Antifoaming agent.

**Nabumetone:** A white, or almost white, crystalline powder. Freely soluble in acetone; sparingly soluble in alcohol and in methanol; practically insoluble in water.

**Nadolol:** White to off-white, practically odorless, crystalline powder. Freely soluble in alcohol and in methanol; soluble in water at pH 2; slightly soluble in chloroform, in methylene chloride, in isopropyl alcohol, and in water (between pH 7 and pH 10); insoluble in acetone, in benzene, in ether, in hexane, and in trichloroethane.

**Nafcillin Sodium:** White to yellowish-white powder, having not more than a slight characteristic odor. Freely soluble in water and in chloroform; soluble in alcohol.

**Nalidixic Acid:** White to very pale yellow, odorless, crystalline powder. Soluble in chloroform, in methylene chloride, and in solutions of fixed alkali hydroxides and carbonates; slightly soluble in acetone, in alcohol, in methanol, and in toluene; very slightly soluble in ether and in water.

**Naloxone Hydrochloride:** White to slightly off-white powder. Its aqueous solution is acidic. Soluble in water, in dilute acids, and in strong alkali; slightly soluble in alcohol; practically insoluble in ether and in chloroform.

**Naloxone Hydrochloride Injection:** Clear, colorless liquid.

**Nandrolone Decanoate:** Fine, white to creamy white, crystalline powder. Is odorless, or may have a slight odor. Soluble in chloroform, in alcohol, in acetone, and in vegetable oils; practically insoluble in water.

**Naphazoline Hydrochloride:** White, crystalline powder. Is odorless and has a bitter taste. Melts at a temperature of about 255°, with decomposition. Freely soluble in water and in alcohol; very slightly soluble in chloroform; practically insoluble in ether.

**Naproxen:** White to off-white, practically odorless, crystalline powder. Soluble in chloroform, in dehydrated alcohol, and in alcohol; sparingly soluble in ether; practically insoluble in water.

**Naproxen Sodium:** White to creamy crystalline powder. Soluble in water and in methanol; sparingly soluble in alcohol; very slightly soluble in acetone; and practically insoluble in chloroform and in toluene. Melts at about 255°, with decomposition.

**Narasin:** White to off-white, crystalline powder. Melts at about 217°, with decomposition. Soluble in methanol and in water.

**Naratriptan Hydrochloride:** White to pale yellow solid. Soluble in water.

**Natamycin:** Off-white to cream-colored powder, which may contain up to 3 moles of water. Soluble in glacial acetic acid and in dimethylformamide; slightly soluble in methanol; practically insoluble in water.

**Nateglinide:** White powder. Freely soluble in methanol and in alcohol; soluble in ether; sparingly soluble in acetonitrile and in octanol; practically insoluble in water.

**Nefazodone Hydrochloride:** Nonhygroscopic, white powder. Freely soluble in chloroform; soluble in propylene glycol; slightly soluble in polyethylene glycol and in water.

**Neomycin Sulfate:** White to slightly yellow powder, or cryodesiccated solid. Is odorless or practically so and is hygroscopic. Its solutions are dextrorotatory. Freely soluble in water; very slightly soluble in alcohol; insoluble in acetone, in chloroform, and in ether.

**Netilmicin Sulfate:** White to pale yellowish-white powder. Freely soluble in water; practically insoluble in dehydrated alcohol and in ether.

**Nevirapine:** White to off-white, odorless to nearly odorless, crystalline powder. Slightly soluble in alcohol and in methanol; practically insoluble in water. Hydrous form also slightly soluble in propylene glycol.

**Niacin:** White crystals or crystalline powder. Is odorless, or has a slight odor. Melts at about 235°. Freely soluble in boiling water, in boiling alcohol, and in solutions of alkali hydroxides and carbonates; sparingly soluble in water; practically insoluble in ether.

**Niacinamide:** White, crystalline powder. Is odorless or practically so, and has a bitter taste. Its solutions are neutral to litmus. Freely soluble in water and in alcohol; soluble in glycerin.

**Nifedipine:** Yellow powder. Is affected by exposure to light. Freely soluble in acetone; practically insoluble in water.

**Nimodipine:** Light yellow or yellow, crystalline powder, affected by light. Freely soluble in ethyl acetate; sparingly soluble in alcohol; practically insoluble in water. Exhibits polymorphism.

**Nitric Acid:** Highly corrosive fuming liquid, having a characteristic, highly irritating odor. Stains animal tissues yellow. Boils at about 120°. Specific gravity is about 1.41. *NF category:* Acidifying agent.

**Nitrofurantoin:** Lemon-yellow, odorless crystals or fine powder. Has a bitter aftertaste. Soluble in dimethylformamide; very slightly soluble in water and in alcohol.

**Nitrofurazone:** Lemon yellow, odorless, crystalline powder. Darkens slowly on exposure to light. Melts at about 236°, with decomposition. Soluble in dimethylformamide; slightly soluble in propylene glycol and in polyethylene glycol mixtures; very slightly soluble in alcohol and in water; practically insoluble in chloroform and in ether.

**Nitrofurazone Ointment:** Yellow, opaque, and water-miscible, and has ointment-like consistency.

**Nitrofurazone Topical Solution:** Light yellow, clear, somewhat viscous liquid, having a faint characteristic odor. Miscible with water.

**Nitrogen:** Colorless, odorless, tasteless gas. Is nonflammable and does not support combustion. One L at 0° and at a pressure of 760 mm of mercury weighs about 1.251 g. One volume dissolves in about 65 volumes of water and in about 9 volumes of alcohol at 20° and at a pressure of 760 mm of mercury. *NF category:* Air displacement.

**Diluted Nitroglycerin:** When diluted with lactose, it is a white, odorless powder. When diluted with propylene glycol or alcohol, it is a clear, colorless, or pale yellow liquid. [NOTE—Undiluted nitroglycerin occurs as a white to pale yellow, thick, flammable, explosive liquid.] Undiluted nitroglycerin is soluble in methanol, in alcohol, in carbon disulfide, in acetone, in ethyl ether, in ethyl acetate, in glacial acetic acid, in benzene, in toluene, in nitrobenzene, in phenol, in chloroform, and in methylene chloride; slightly soluble in water.

**Nitromersol:** Brownish yellow to yellow granules or brownish yellow to yellow powder. Is odorless and tasteless and is affected by light. Soluble in solutions of alkalies and of ammonia by opening of the anhydride ring and the formation of a salt; very slightly soluble in water, in alcohol, in acetone, and in ether.

**Nitromersol Topical Solution:** Clear, reddish-orange solution. Is affected by light.

**Nitrous Oxide:** Colorless gas, without appreciable odor or taste. One L at 0° and at a pressure of 760 mm of mercury weighs about 1.97 g. One volume dissolves in about 1.4 volumes of water at 20° and at a pressure of 760 mm of mercury. Freely soluble in alcohol; soluble in ether and in oils.

**Nizatidine:** Off-white to buff crystalline solid. Freely soluble in chloroform; soluble in methanol; sparingly soluble in water.

**Nonoxynol 9:** Clear, colorless to light yellow, viscous liquid. Soluble in water, in alcohol, and in corn oil. *NF category:* Wetting and/or solubilizing agent.

**Norepinephrine Bitartrate:** White or faintly gray, odorless, crystalline powder. Slowly darkens on exposure to air and light. Its solutions are acid to litmus, having a pH of about 3.5. Freely soluble in water; slightly soluble in alcohol; practically insoluble in chloroform and in ether. Melts between 98° and 104°, without previous drying of the specimen, the melt being turbid.

**Norepinephrine Bitartrate Injection:** Colorless or practically colorless liquid, gradually turning dark on exposure to air and light.

**Norethindrone:** White to creamy white, odorless, crystalline powder. Is stable in air. Soluble in chloroform and in dioxane; sparingly soluble in alcohol; slightly soluble in ether; practically insoluble in water.

**Norethindrone Acetate:** White to creamy white, odorless, crystalline powder. Very soluble in chloroform; freely soluble in dioxane; soluble in ether and in alcohol; practically insoluble in water.

**Norfloxacin:** White to pale yellow, crystalline powder. Sensitive to light and moisture. Freely soluble in acetic acid; sparingly soluble in chloroform; slightly soluble in acetone, in water, and in alcohol; very slightly soluble in methanol and in ethyl acetate; insoluble in ether.

**Norgestimate:** White to pale yellow powder. Very to freely soluble in methylene chloride; sparingly soluble in acetonitrile; insoluble in water.

**Norgestrel:** White or practically white, practically odorless, crystalline powder. Freely soluble in chloroform; sparingly soluble in alcohol; insoluble in water.

**Nortriptyline Hydrochloride:** White to off-white powder, having a slight, characteristic odor. Its solution (1 in 100) has a pH of about 5. Soluble in water and in chloroform; sparingly soluble in methanol; practically insoluble in ether, in benzene, and in most other organic solvents.

**Noscapine:** Fine, white or practically white, crystalline powder. Freely soluble in chloroform; soluble in acetone; slightly soluble in alcohol and in ether; practically insoluble in water.

**Novobiocin Calcium:** White or yellowish-white, odorless, crystalline powder. Freely soluble in alcohol and in methanol; sparingly soluble in acetone and in butyl acetate; slightly soluble in water and in ether; very slightly soluble in chloroform.

**Novobiocin Sodium:** White or yellowish-white, odorless, hygroscopic, crystalline powder. Freely soluble in water, in alcohol, in methanol, in glycerin, and in propylene glycol; slightly soluble in butyl acetate; practically insoluble in acetone, in chloroform, and in ether.

**Nystatin:** Yellow to light tan powder, having an odor suggestive of cereals. Is hygroscopic, and is affected by long exposure to light, heat, and air. Freely soluble in dimethylformamide and in dimethyl sulfoxide; sparingly to slightly soluble in methanol, in *n*-propyl alcohol, and in *n*-butyl alcohol; practically insoluble in water and in alcohol; insoluble in chloroform and in ether.

**Octoxynol 9:** Clear, pale yellow, viscous liquid, having a faint odor and a bitter taste. Soluble in benzene and in toluene; practically insoluble in solvent hexane. Miscible with water, with alcohol, and with acetone. *NF category:* Wetting and/or solubilizing agent.

**Octyldodecanol:** Clear water-white, free-flowing liquid. Soluble in alcohol and in ether; insoluble in water. *NF category:* Vehicle (oleaginous).

**Octyl Methoxycinnamate:** Pale yellow oil. Insoluble in water.

**Ofloxacin:** Pale yellowish-white to light yellowish-white crystals or crystalline powder. Sparingly soluble in chloroform; slightly soluble in alcohol, in methanol, and in water.