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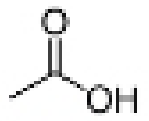
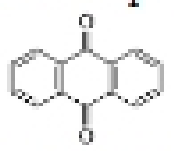
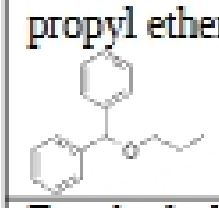
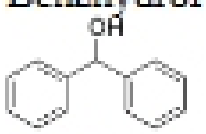
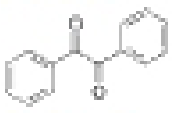
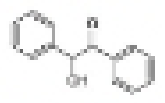
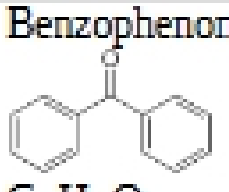
CHEMICAL TABLE: Source website – http://www.sciencelab.com/msdsList.php

Chemical	**MW (g/mole)**	**BP/MP °(C)**	**SG (g/ml)**	**Amt. required / produced**	**HAZARDS/ Precautions**
Acetic acid  $C_2H_4O_2$	60.05	118.1°C/ 16.6°C	1.049		• Flammable, corrosive • Hazardous skin/eye contact, ingestion + inhalation. • Use goggles, lab coat, gloves, and ventilation
Ammonia  NH_3	35.05	BP: not availabl e MP: -69.2°C	0.898		• Corrosive, poisonous • Very hazardous skin/eye contact, ingestion, inhalation. • Use goggles, lab coat, gloves, and ventilation
Anthracene $C_{14}H_{10}$ 	178.22	342°C / 218°C	1.25		• May be combustible at high temp. • Carcinogen, irritant, sensitizer, and permeator: Hazardous skin/eye contact, inhalation + ingestion • Use goggles, lab coat, gloves, and ventilation
Anthraquinone  $C_{14}H_8O_2$	208.22	377°C/ 284 to 286°C	1.44		• Slightly hazardous skin/eye contact, ingestion, inhalation • Use goggles, lab coat, gloves, and ventilation
Benzhydril-1-propyl ether* 		200°C at 500 mm Hg			• Flammable • Hazardous • Use goggles, lab coat, gloves, ventilation
Benzhydrol  $C_{13}H_{12}O$	184.24	298°C/ 66°C	Not avail.		• May be combustible at high temp • Hazardous skin/eye contact, ingestion + inhalation. • Use goggles, lab coat, gloves, ventilation
Benzil  $C_{14}H_{10}O_2$	210.23	BP: not availabl e MP: 95°C	Not availabl e		• May be combustible at high temperatures • Hazardous skin/eye contact, inhalation. • Use goggles, lab coat, gloves, and ventilation
Benzoin  $C_{14}H_{12}O_2$	212.26	343°C/ 137°C	1.31		• May be combustible at high temp • Hazardous skin/eye contact; Very hazardous ingestion + inhalation. • Use goggles, lab coat, gloves, and ventilation
Benzophenone  $C_{13}H_{10}O$	182.22	305.4°C/ 49°C	1.1108	1.5 g	• May be combustible at high temp • Hazardous in skin contact, eye contact, ingestion + inhalation. • Use goggles, lab coat, gloves, ventilation
2-	226.23	257-	Not		• Hazardous skin/eye contact, ingestion +

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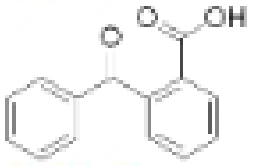
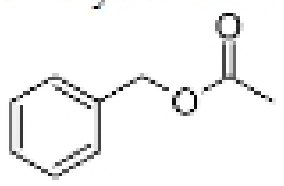
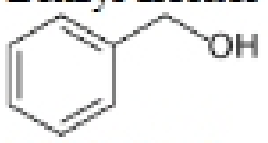
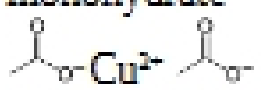
benzoylbenzoic acid*  $C_{14}H_{10}O_3$		265°C/ 126-130°C	availab le		inhalation. • Use goggles, lab coat, gloves, and ventilation
Benzyl acetate  $C_6H_5CH_2OCOCH_3$	150.18	210 °C/ -51 °C	1.04	5.555 ml (5.7772 g)	• Combustible, flammable irritant • Hazardous skin + eye contact, ingestion, inhalation • Use goggles, lab coat, gloves, ventilation
Benzyl alcohol  $C_6H_5CH_2OH$	108.14	205.3°C/ -15.2°C	1.04	4 ml	• Combustible and flammable • Permeator + irritant • Hazardous skin/eye contact, inhalation + ingestion • Use goggles, lab coat, gloves and ventilation
Calcium chloride (pellets)	110.99	1670°C/ 772°C	2.15	<3 g	• Irritant + permeator • Hazardous skin and eye contact, ingestion, inhalation • Use goggles, lab coat, gloves, ventilation
Cupric acetate monohydrate  $(CH_3COO)_2Cu.H_2O$	199.65	BP: decomp oses MP: 115°C	1.882		• May be combustible at high temp • Hazardous skin/eye contact; Very hazardous ingestion + inhalation. • Use goggles, lab coat, gloves, and ventilation
di-*n*-propyl ether**  $C_6H_{14}O$	102.17	88-90°C/ -123°C	0.736	Possible side product	• Highly flammable • Hazardous skin/eye contact, ingestion + inhalation. • Use goggles, lab coat, gloves, and ventilation
Ethanol  CH_3CH_2OH	46.07	78.5°C/ -114.1 °C	0.789		• Flammable • Irritant and permeator: Hazardous skin/eye contact, inhalation + ingestion • Use goggles, lab coat, gloves, ventilation
Ethyl acetate  $C_4H_8O_2$	88.11	77°C/ -83°C	0.902	.5 ml	• Flammable • Hazardous ingestion + inhalation. Slightly hazardous skin + eye contact • Toxic to mucous membranes • Use goggles, lab coat, gloves, ventilation
Heptane  C_7H_{16}	100.21	98.4°C/ -90.7°C	0.6838	15 ml	• Flammable • Slightly hazardous skin/eye contact, ingestion, inhalation. • Use goggles, lab coat, gloves, and ventilation
Hexane  C_6H_{14}	86.18	68°C/ -95°C	0.66	1.5 ml	• Flammable • Hazardous skin contact, ingestion + inhalation. Slightly hazardous skin + eye

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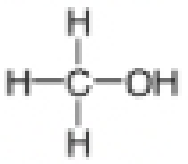
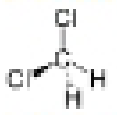
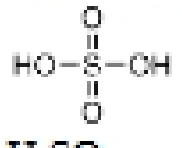
					contact. • Use goggles, lab coat, gloves, ventilation
Magnesium sulfate, anhydrous $MgSO_4$	120.38	Not available	Not available	Enough pellets to cover bottom of Erlenmeyer flask	• Hazardous ingestion; slightly hazardous skin/eye contact, inhalation • Use goggles, lab coat, gloves, and ventilation
Maleic anhydride  $C_4H_2O_3$	98.06	202°C / 52.8°C	1.48		• May be combustible at high temp. • Irritant, permeator: Hazardous skin contact, eye contact, ingestion + inhalation; corrosive to eyes and skin • Use goggles, lab coat, gloves, and ventilation
Methanol  CH_3OH	32.04	64.5°C/ -97.8°C	0.7915	9 ml	• Flammable liquid and vapor • Hazardous skin contact, eye contact, ingestion + inhalation. Toxic to eyes • Use goggles, lab coat, gloves ventilation
Methylene chloride  CH_2Cl_2	84.93	39.75°C/ -96.7°C	1.3266	< 1 ml	• May be combustible at high temp • Very hazardous in eye contact, ingestion + inhalation. Hazardous in skin contact. Potential carcinogen. • Use goggles, lab coat, gloves, ventilation
1-propanol  $CH_3CH_2CH_2OH$	60.1	97.22 °C/ -126.2 °C	0.8053	12 ml	• Highly flammable • Hazardous skin/eye contact, ingestion + inhalation. • Use goggles, lab coat, gloves, and ventilation
Sodium borohydride  $NaBH_4$	37.84	BP: not available MP: decomp-oses	1.074	150 mg	• Flammable and corrosive. • Extremely hazardous skin and eye contact, ingestion + inhalation. • Use goggles, lab coat, gloves ventilation.
Sodium carbonate $NaCO_3$	105.99	BP: not available MP: 851°C	2.532	0.53 g	• Hazardous skin/eye contact, ingestion + inhalation. • Use goggles, lab coat, gloves, and ventilation
Sodium chloride NaCl	58.44	1413°C/ 801°C	2.165	≥5.385 g	• Slightly hazardous skin/eye contact, ingestion, inhalation • Use goggles, lab coat, gloves
Sodium hydroxide NaOH	40	1388°C/ 323°C	2.13		• Corrosive, Irritant, Permeator • Causes burns by all exposure routes • Use only in hood/ corrosives area • Use goggles, lab coat gloves + ventilation
Sulfuric acid  H_2SO_4	98.08	BP: 270 to 340°C (decomp oses) MP: -	1.84	8 drops	• Corrosive, irritant, permeator • Hazardous skin/eye contact, ingestion + inhalation. • Use goggles, lab coat, gloves, and ventilation