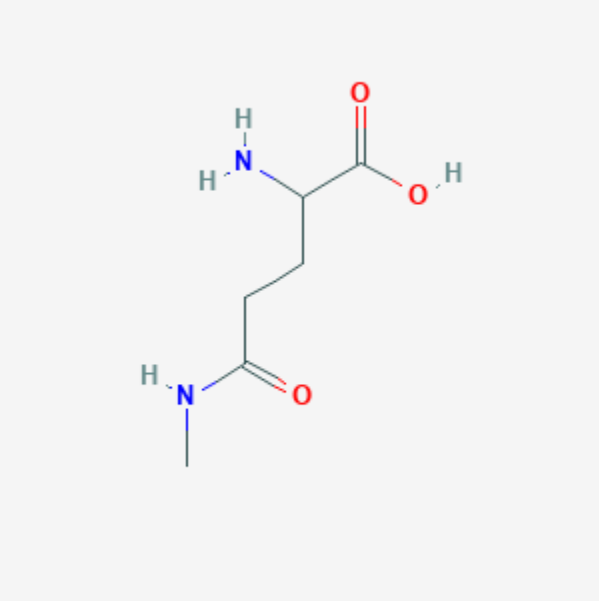
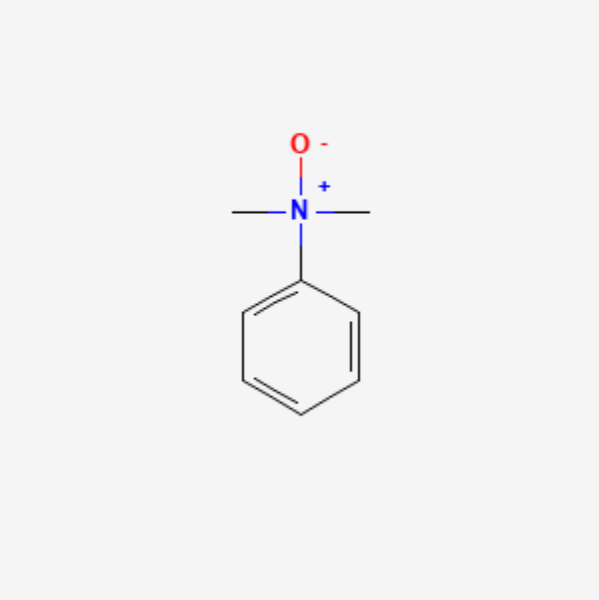
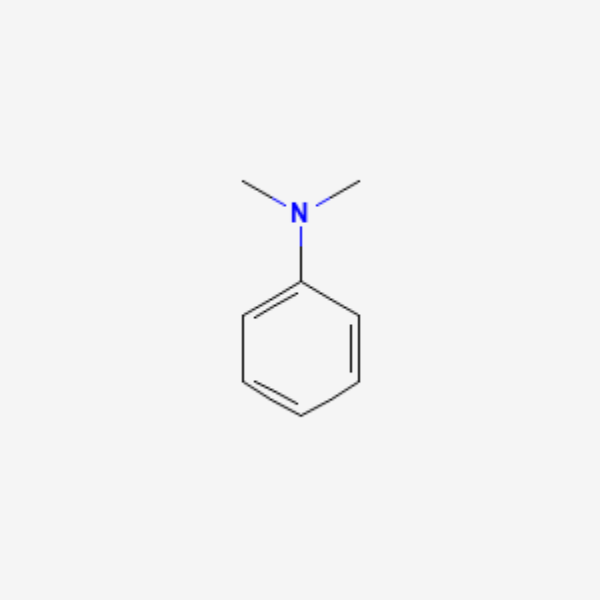
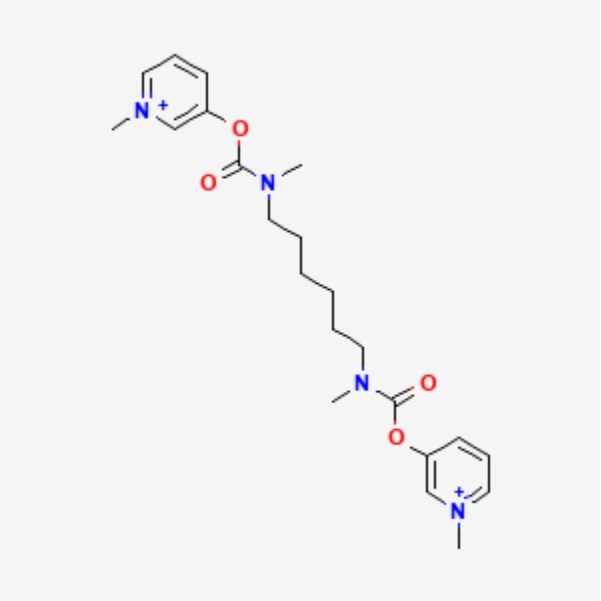
Which compounds are aromatic?

1. 

2. 

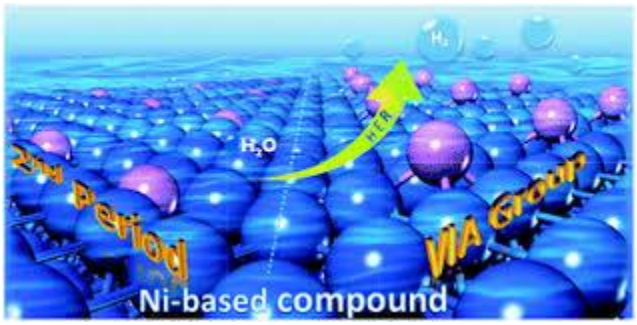
3. 

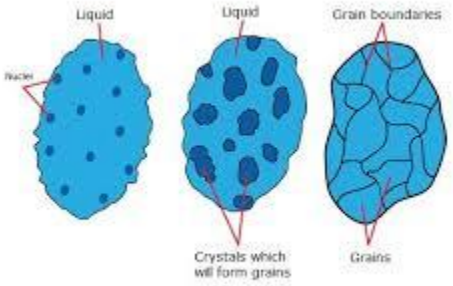
4. 

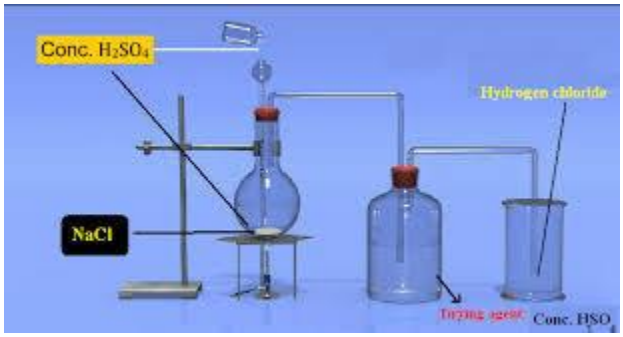
Solution

1. The compound has a benzene ring (with a chlorine atom substituted for one of the hydrogen atoms); it is aromatic.
2. The compound is cyclic, but it does not have a benzene ring; it is not aromatic.
3. The compound has a benzene ring (with a propyl group substituted for one of the hydrogen atoms); it is aromatic.
4. The compound is cyclic, but it does not have a benzene ring; it is not aromatic.

Which compounds are non-metallic?

1. 

2. 

3. 

Here are 10 numerical properties of the elements in a table format:

Element	Atomic Number	Atomic Mass	Density (g/cm³)	Melting Point (°C)	Boiling Point (°C)	Electronegativity	Ionization Energy (kJ/mol)	Atomic Radius (pm)	Oxidation States
Hydrogen	1	1.008	0.0899	-259.14	-252.87	2.20	1312	25	-1, +1
Helium	2	4.003	0.1785	-272.20	-268.93	N/A	2372	31	0
Lithium	3	6.941	0.534	180.54	1342	0.98	520	145	+1
Berylliu m	4	9.012	1.85	1287	2470	1.57	900	105	+2
Boron	5	10.81	2.34	2075	4000	2.04	801	85	+3
Carbon	6	12.01	2.26	3500	4827	2.55	1086	70	-4, -3, -2, -1, +1, +2, +3, +4
Nitroge n	7	14.01	0.00125	-210.01	-195.79	3.04	1402	65	-3, -2, -1, +1, +2, +3, +4, +5
Oxyge n	8	16.00	0.00143	-218.79	-182.96	3.44	1314	60	-2, -1, +1, +2
Fluorin e	9	19.00	0.00170	-219.67	-188.12	3.98	1681	50	-1
Neon	10	20.18	0.9002	-248.59	-246.08	N/A	2081	38	0

Note that these values are approximate and may vary depending on the source. Also, there are many other properties that could be included in a table of elemental properties.