

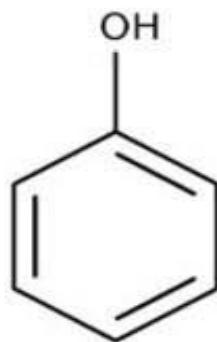
PHARMACEUTICAL ORGANIC CHEMISTRY-II- BP301T

UNIT: 2 Phenols

CLASS: 4

TOPIC Structure & Uses:

1) Phenol



Phenol has been used to disinfect skin and to relieve itching.

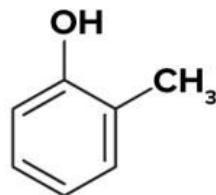
Phenol is also used as an oral analgesic or anesthetic in products such as Chloraseptic to treat pharyngitis.

Additionally, phenol and its related compounds are used in surgical ingrown toenail treatment, a process termed penalizations.

Phenol is used in many industries.

It's used for medicine as a slimicide, antiseptic, and disinfectant and to manufacture a number of products.

2) Cresol:



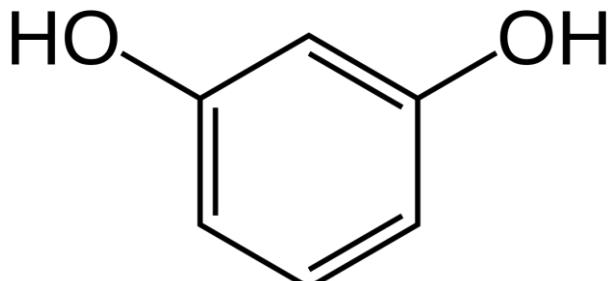
Cresols are used to dissolve other chemicals, as disinfectants and deodorizers, and to make other chemicals.

Cresols may be formed normally in the body from other compounds.

Cresols are found in many foods and in wood and tobacco smoke, crude oil, coal tar, and in chemical mixtures used as wood preservatives.

Cresol is a dental disinfectant used to remove dental pulp. Cresol is a hydroxyl toluene that can be extracted naturally from coal tar or made synthetically.

3) Resorcinol:



Uses:

Resorcinol is used to treat acne, seborrheic dermatitis, eczema, psoriasis, and other skin disorders.

It is also used to treat corns, calluses, and warts. Resorcinol works by helping to remove hard, scaly, or roughened skin.

Some of these preparations are available only with your doctor's prescription.

Qualitative Analysis of Phenols:

S. NO	Experiment	Observation	Inference
1	<u>Ferric chloride test (FeCl₃)</u> Take 5 ml of sample and add 1-2 drops of ferric chloride solution	Blue (or) green color is formed.	Presence of Phenols
2	<u>Liebermann's test</u> Take 5 ml of sample and add 2-3 drops of nitric acid solution and boil for 2 minutes then cool and add 1-2 drops of sulphuric acid solution.	Blue color is formed	Presence of phenols
3	<u>Phthalic anhydride test:</u> Take 2ml of sample and add 1-2 drops of phthalic anhydride solution and then add 1-2 drops of sulphuric acid solution and then add sodium hydroxide solution.	Red color is formed	Presence of phenols