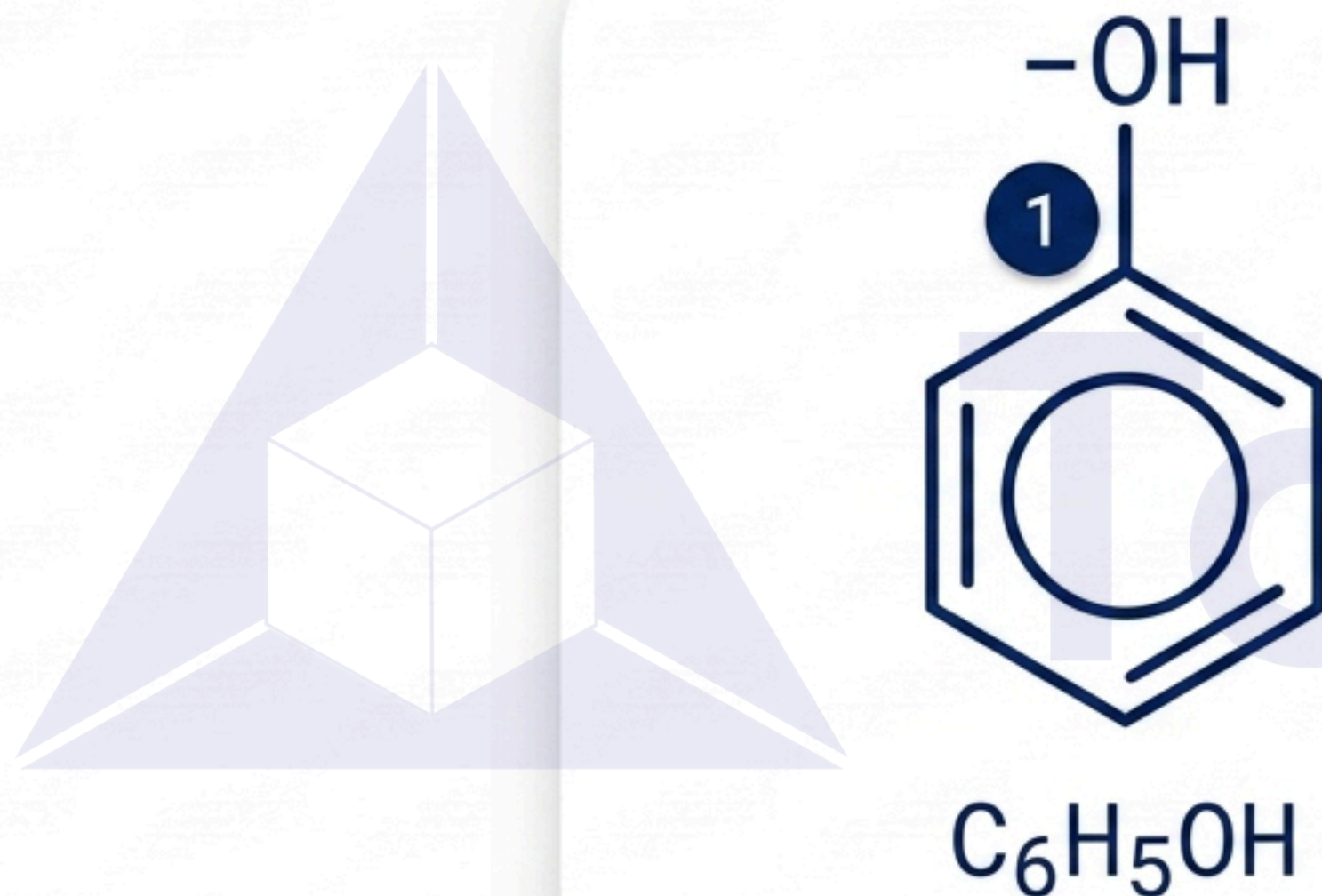


Ortho, Meta and Para Made Simple

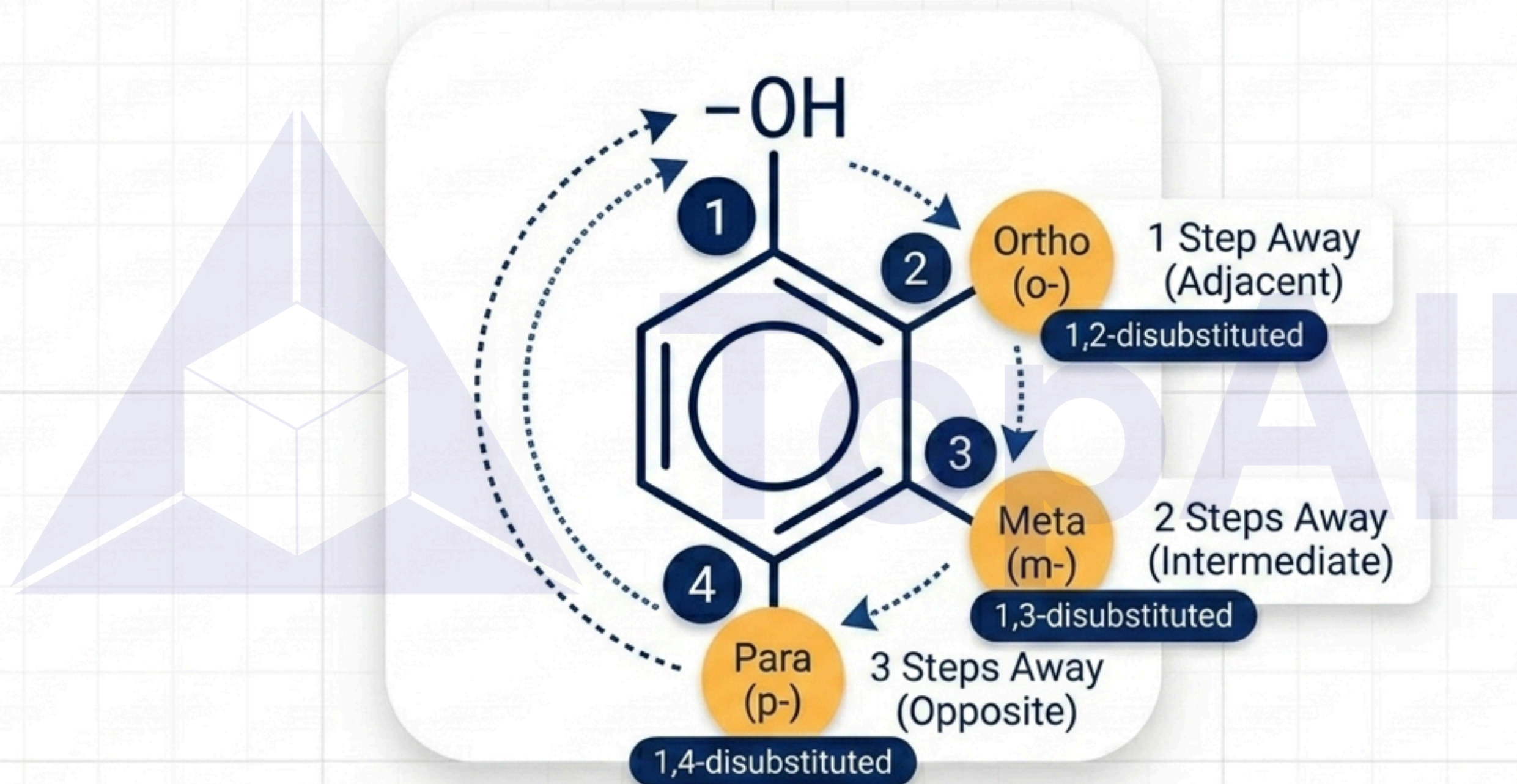
A Spatial Guide to the Nomenclature
of Substituted Phenols

The Simplest Hydroxy Derivative



Key Insight: The name "Phenol" is unique. It serves as both the historical Common Name and the universally accepted IUPAC Name.

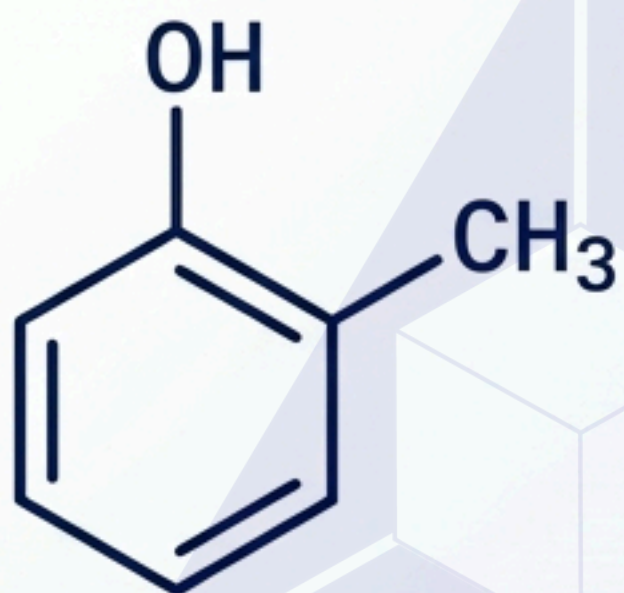
The Ring Position Shortcut



Rule: When the benzene ring gains a second substituent, its name is dictated entirely by its geometric distance from the base -OH anchor.

Applying the Shortcut: The Cresols

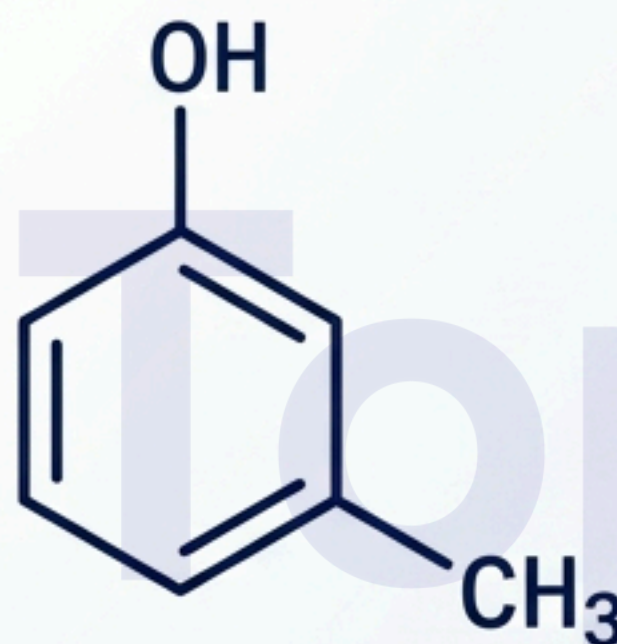
Introducing the Methyl Group (-CH_3) as the second substituent.



o-Cresol

1,2

2-Methylphenol



m-Cresol

1,3

3-Methylphenol



p-Cresol

1,4

4-Methylphenol



You've Learned the Theory. Let's Test Them Now.

$$E=mc^2$$



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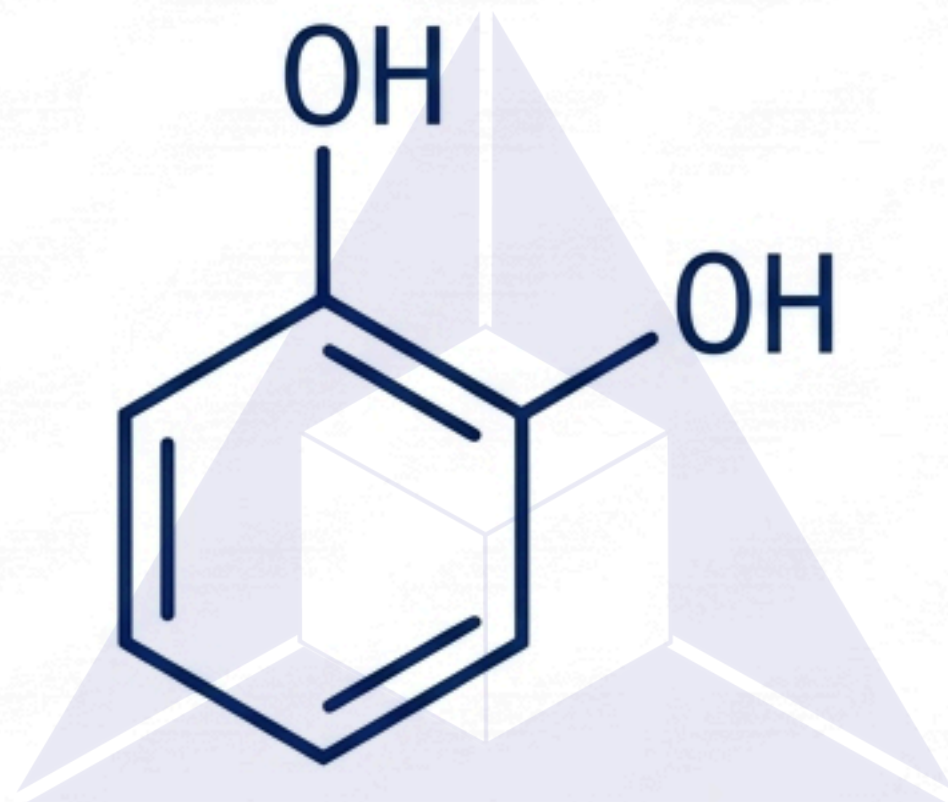
Key Highlights

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Dihydroxy Phenols I: Adjacent & Intermediate

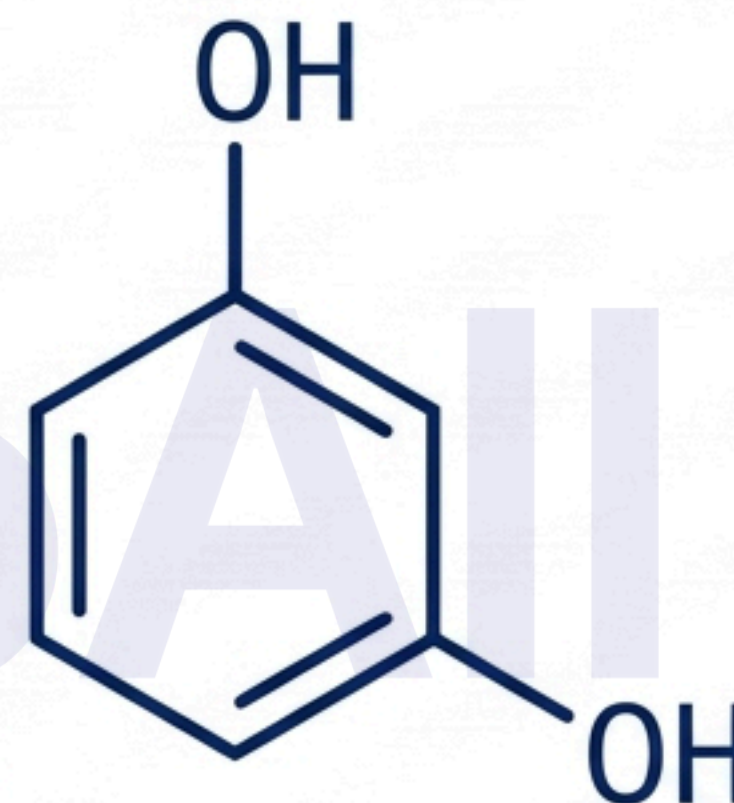
Swapping the -CH₃ group for a second -OH group.



Catechol

1,2

Benzene-1,2-diol



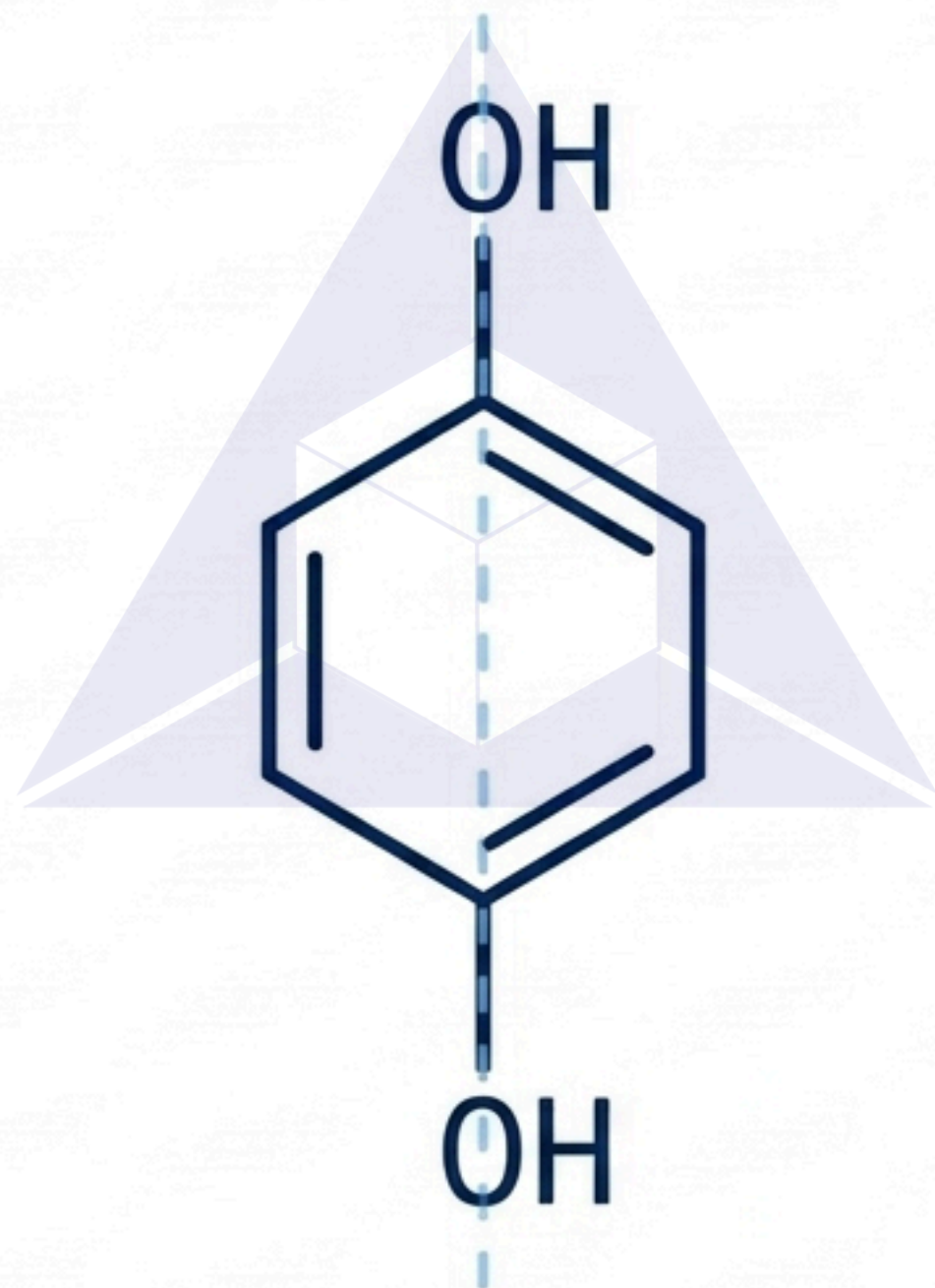
Resorcinol

1,3

Benzene-1,3-diol

Dihydroxy Phenols II: The Opposite Pole

The 1,4-disubstituted configuration.



Hydroquinone

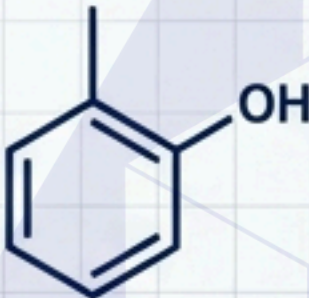
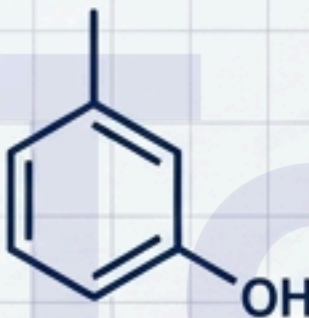
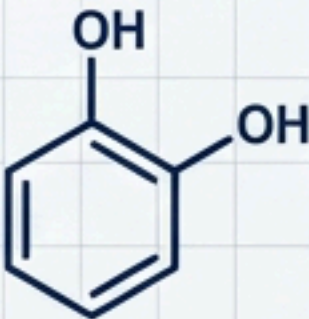
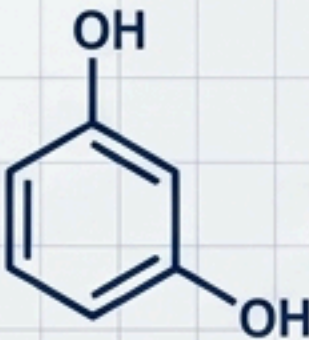
Alternative common name: **quinol**

1,4

Benzene-1,4-diol

The Nomenclature Synthesis Matrix

The definitive spatial cheat sheet.

	Ortho [1,2]	Meta [1,3]	Para [1,4]
Methyl Group (-CH ₃)	 o-Cresol 2-Methylphenol	 m-Cresol 3-Methylphenol	 p-Cresol 4-Methylphenol
Hydroxyl Group (-OH)	 Catechol Benzene-1,2-diol	 Resorcinol Benzene-1,3-diol	 Hydroquinone Benzene-1,4-diol



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