



Lista de Exercícios

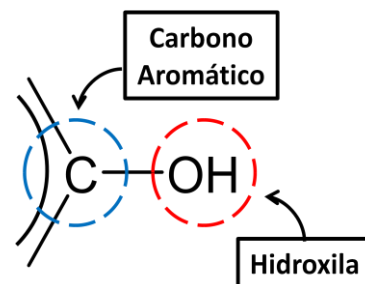
Nomenclatura Orgânica: Fenóis

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1. Introdução

Os fenóis são compostos orgânicos que contêm o grupo funcional **Hidroxila** (-OH) ligado diretamente a um carbono de anel aromático. São ácidos fracos, em razão do hidrogênio ionizável ligado ao oxigênio. Não confundir os fenóis com os alcoóis: na função álcool, a hidroxila está ligada a um **carbono saturado**; na função fenol, a hidroxila está ligada a um **carbono aromático**.

São usados como antibacterianos e fungicidas.

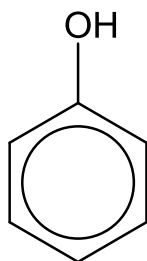


2. Regras de nomenclatura

Para os Fenóis usamos a seguinte regra **IUPAC**:

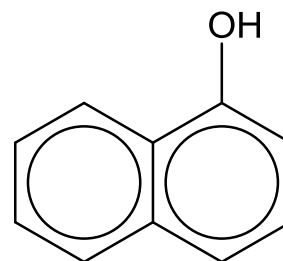
HIDRÓXI + HIDROCARBONETO

Exemplos:



IUPAC: hidróxi-benzeno ou fenol

Outros: benzenol e ácido fênico.

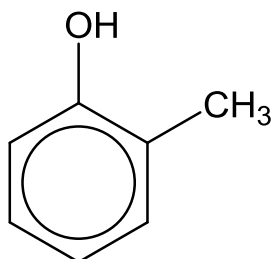


IUPAC: 1-hidróxi-naftaleno ou α -naftol

Outros: naftalen-1-ol ou 1-naftalenol

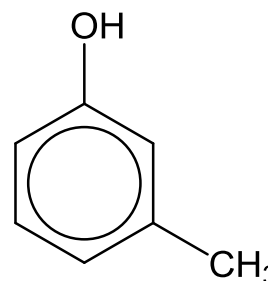
Quando houver mais de um substituinte no anel aromático, eles terão as posições indicadas a partir do grupo hidroxila (1). Também é aceita para compostos aromáticos dissustituídos os prefixos **orto** ou **o**, **meta** ou **m** e **para** ou **p**, respectivamente, em relação à hidroxila.

Exemplos:



IUPAC: 1-hidróxi-2-metilbenzeno ou 2-metilfenol

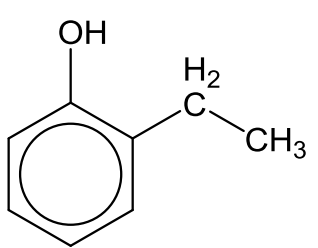
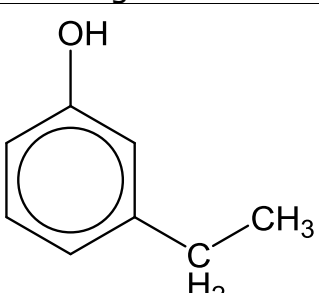
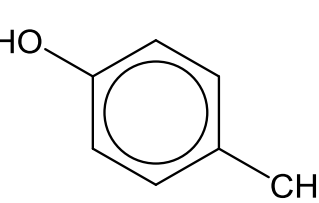
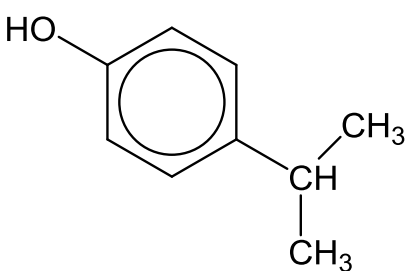
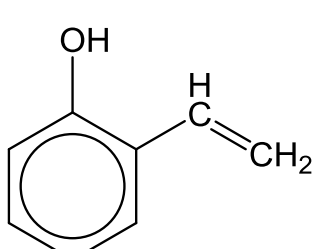
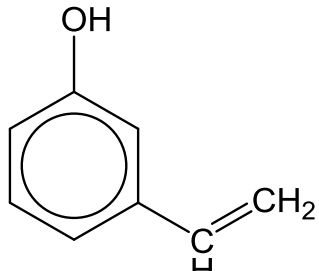
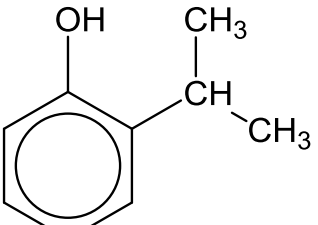
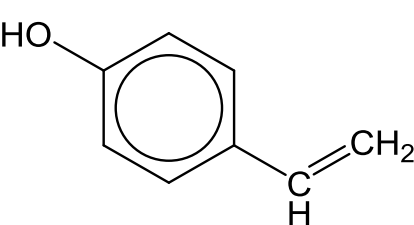
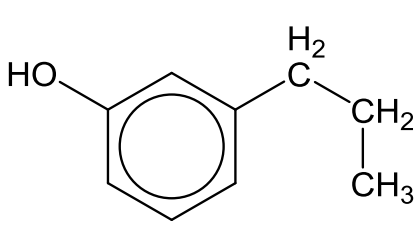
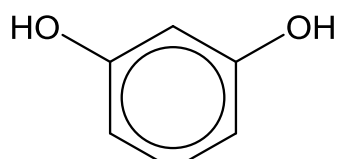
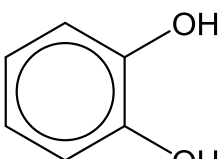
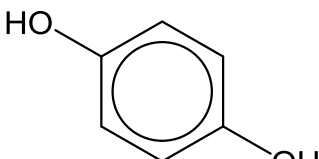
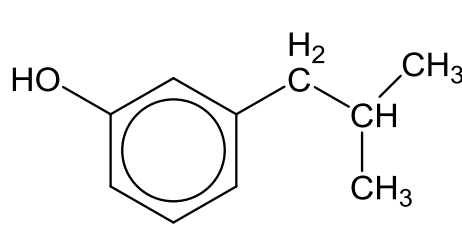
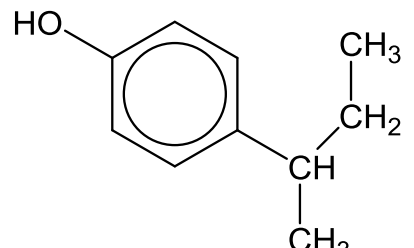
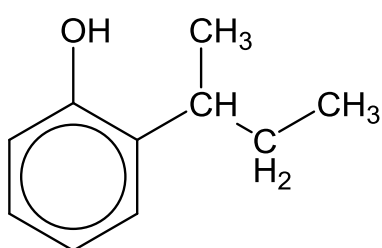
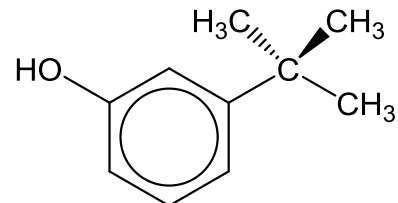
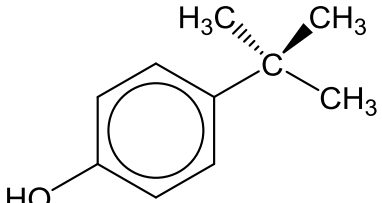
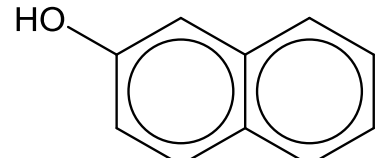
Outros: o-hidróxi-metilbenzeno ou o-cresol ou o-metilfenol ou o-hidróxi-tolueno



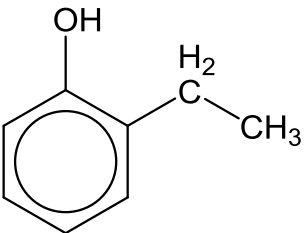
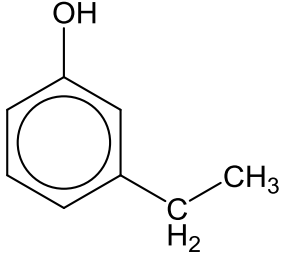
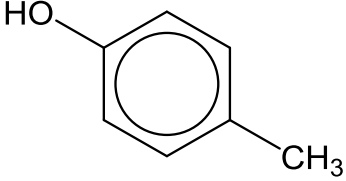
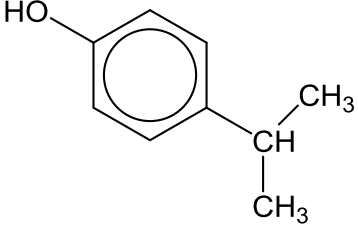
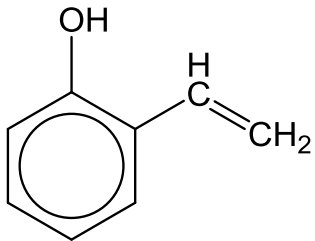
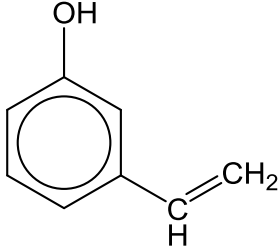
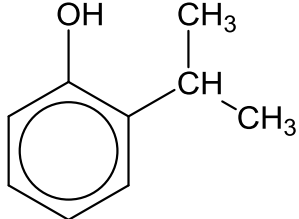
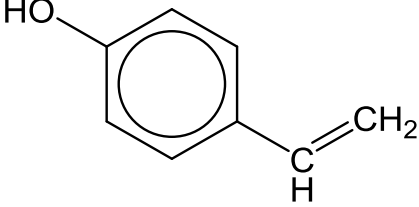
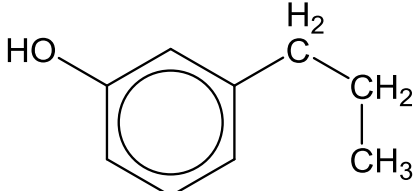
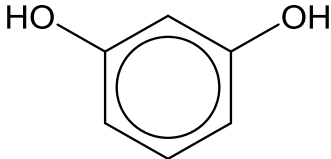
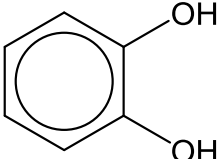
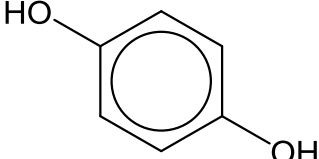
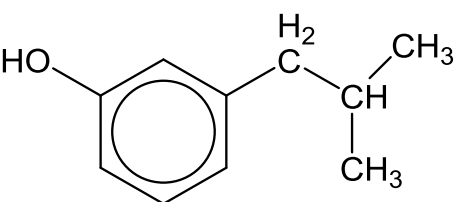
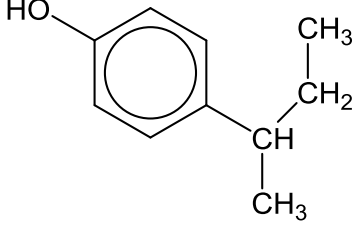
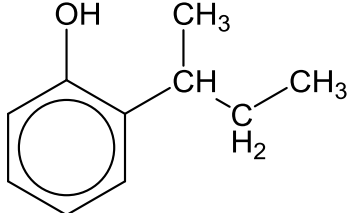
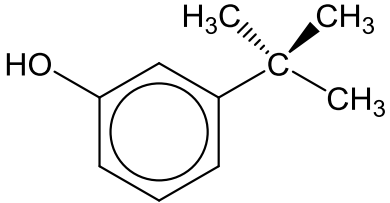
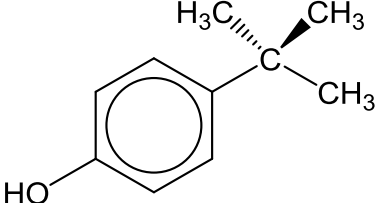
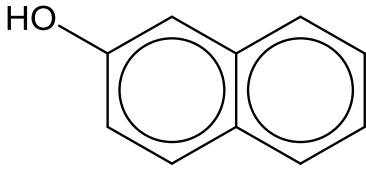
IUPAC: 1-hidróxi-3-metilbenzeno ou 3-metilfenol

Outros: m-hidróxi-metilbenzeno ou m-cresol ou m-metilfenol ou m-hidróxi-tolueno

Dê os nomes dos seguintes compostos orgânicos:

GABARITO

 <p>2-etilfenol ou o-etilfenol ou 1-hidróxi-2-etilbenzeno</p>	 <p>3-etilfenol ou m-etilfenol ou 1-hidróxi-3-etilbenzeno</p>	 <p>4-metilfenol ou p-metilfenol ou 1-hidróxi-4-metilbenzeno</p>
 <p>4-isopropilfenol ou p-isopropilfenol ou 1-hidróxi-4-isopropilbenzeno</p>	 <p>2-vinilfenol ou o-vinilfenol ou 1-hidróxi-2-vinilbenzeno</p>	 <p>3-vinilfenol ou m-vinilfenol ou 1-hidróxi-3-vinilbenzeno</p>
 <p>2-isopropilfenol ou o-isopropilfenol ou 1-hidróxi-2-isopropilbenzeno</p>	 <p>4-vinilfenol ou p-vinilfenol ou 1-hidróxi-4-vinilbenzeno</p>	 <p>3-n-propilfenol ou m-n-propilfenol ou 1-hidróxi-3-n-propilfenol</p>
 <p>m-diidróxibenzeno ou 1,3-diidróxibenzeno ou resorcinol</p>	 <p>o-diidróxibenzeno ou 1,2-diidróxibenzeno ou catecol</p>	 <p>p-diidróxibenzeno ou 1,4-diidróxibenzeno ou hidroquinona</p>
 <p>3-isobutilfenol ou m-isobutilfenol ou 1-hidróxi-3-isobutilbenzeno</p>	 <p>4-sec-butilfenol ou p-sec-butilfenol ou 1-hidróxi-4-sec-butilbenzeno</p>	 <p>2-sec-butilfenol ou o-sec-butilfenol ou 1-hidróxi-2-sec-butilbenzeno</p>
 <p>3-terc-butilfenol ou m-terc-butilfenol ou 1-hidróxi-3-terc-butilbenzeno</p>	 <p>4-terc-butilfenol ou p-terc-butilfenol ou 1-hidróxi-4-terc-butilbenzeno</p>	 <p>β-naftol ou β-hidróxi-naftaleno</p>