

TABELA DAS PRINCIPAIS FUNÇÕES ORGÂNICAS E GRUPOS FUNCIONAIS

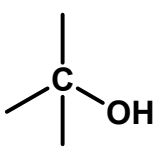
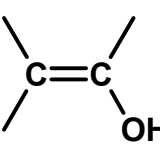
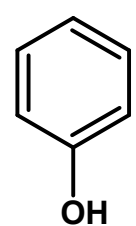
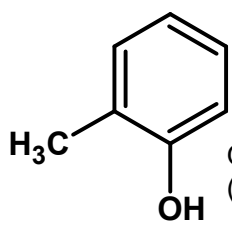
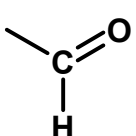
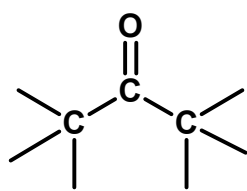
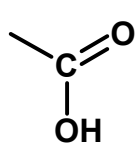
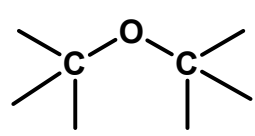
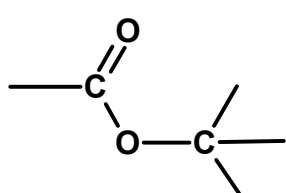
Função orgânica	Grupo funcional	Exemplos
Hidrocarboneto	C_xH_y	H_3C-CH_3 Etano $HC\equiv CH$ Etino ou acetileno
Álcool		H_3C-CH_2-OH Etanol
Enol		$H_2C=CH-OH$ Etenol
Fenol		 Orto-hidroxi-tolueno (orto-cresol)
Aldeído		$H_3C-C(=O)H$ Etanal ou etanaldeído (aldeído acético)
Cetona		$H_3C-C(=O)CH_3$ Propanona (acetona)
Ácido carboxílico		$H_3C-C(=O)OH$ Etanoico (ácido acético)
Éter		$H_3C-CH_2-O-CH_2-CH_3$ Dietil-éter (etóxi-etano)
Éster de ácido carboxílico		$H_3C-C(=O)O-CH_3$ Etanoato de metila

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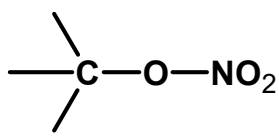
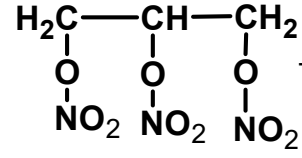
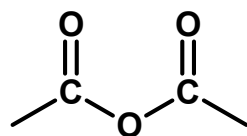
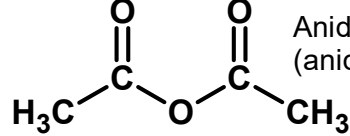
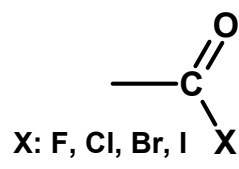
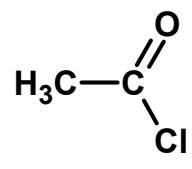
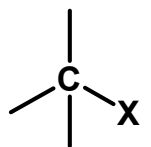
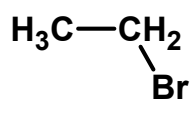
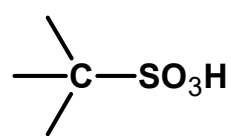
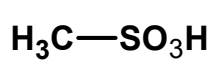
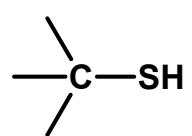
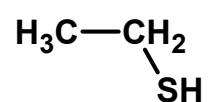
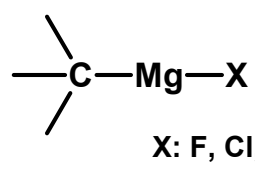
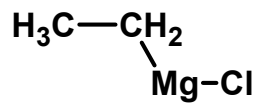
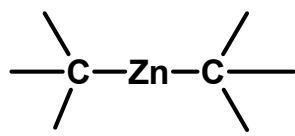
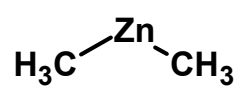
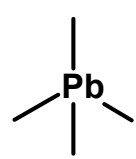
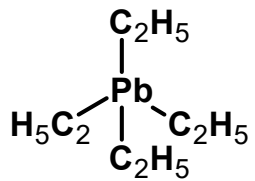
Função orgânica	Grupo funcional	Exemplos
Éster de ácido nítrico		 Trinitroglicerina
Anidrido de ácido carboxílico		 Anidrido etanoico (anidrido acético)
Haleto de ácidos	 X: F, Cl, Br, I	 Cloreto de etanoila
Compostos halogenados (Haleto orgânicos)	 X: F, Cl, Br, I	 Brometo de etila (bromo-etano)
Ácido sulfônico		 Ácido metil-sulfônico
Tioálcool		 Etanotiol
Compostos de Grignard	 X: F, Cl, Br, I	 Cloreto de etil-magnésio
Compostos de Frankland		 Dimetil-zinco (zinco dimetilico)
Compostos de Plúmbicos		 Tetra-etil-chumbo (chumbo-tetraetilico)

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Função orgânica	Grupo funcional	Exemplos
Amina	$\begin{array}{c} \text{R} \\ \\ \text{N} \\ \\ \text{R} \end{array} \text{R} \quad \text{H} \begin{array}{c} \text{N} \\ \\ \text{R} \end{array} \text{R} \quad \text{H} \begin{array}{c} \text{N} \\ \\ \text{H} \end{array} \text{R}$	$\begin{array}{c} \text{CH}_3 \\ \\ \text{H}_3\text{C}-\text{N}-\text{CH}_3 \\ \\ \text{CH}_3 \end{array}$ Trimetilamina
Imina	$\text{R}-\text{CH}=\text{NH}$ $\text{R}-\text{CH}=\text{N}-\text{R}'$	$\text{H}_3\text{C}-\text{CH}=\text{NH}$ Etilimina
Amida	$\begin{array}{c} \text{O} \\ // \\ \text{R}-\text{C} \\ \backslash \\ \text{NH}_2 \end{array}$	$\begin{array}{c} \text{O} \\ // \\ \text{H}_3\text{C}-\text{C} \\ \backslash \\ \text{NH}_2 \end{array}$ Etanamida
Imida	$\begin{array}{c} \text{O} \\ // \\ \text{R}-\text{C} \\ \backslash \\ \text{NH} \\ / \\ \text{R}-\text{C} \\ // \\ \text{O} \end{array}$	$\begin{array}{c} \text{O} \\ // \\ \text{H}_2\text{C}-\text{C} \\ \backslash \\ \text{NH} \\ / \\ \text{H}_2\text{C}-\text{C} \\ // \\ \text{O} \end{array}$ Succínimida
Nitrila (o) (cianeto de alquila)	$\text{R}-\text{C}\equiv\text{N}$	$\text{H}_3\text{C}-\text{C}\equiv\text{N}$ Cianeto de metila (etano-nitrila)
Isonitrila (isocianeto de alquila)	$\text{R}-\text{N}\equiv\text{C}$	$\text{H}_3\text{C}-\text{N}\equiv\text{C}$ Isocianeto de metila (metilcarbílamina)
Nitrocomposto	$\text{R}-\text{NO}_2$	$\begin{array}{c} \text{CH}_3 \\ \\ \text{O}_2\text{N}-\text{C}=\text{C}-\text{NO}_2 \\ // \quad \backslash \\ \text{HC} \quad \text{CH} \\ \backslash \quad / \\ \text{C} \\ \\ \text{NO}_2 \end{array}$ 2,4,6-trinitrotolueno (TNT)
Sal de ácido carboxílico	$\begin{array}{c} \text{O} \\ // \\ \text{R}-\text{C} \\ \backslash \\ \text{O}^- \text{M}^+ \end{array}$	$\text{H}_{31}\text{C}_{15}-\begin{array}{c} \text{O} \\ // \\ \text{C} \\ \backslash \\ \text{ONa} \end{array}$ Palmitato de sódio