

FUNCTIONAL GROUPS I - WORKSHEET

Name or draw the following compounds:

	Chemical structure	IUPAC Name
1	$\begin{array}{ccccccc} \text{H}_3\text{C} & - & \text{CH} & - & \text{CH}_2 & - & \text{CH}_2 & - & \text{OH} \\ & & & & & & & & \\ & & \text{NO}_2 & & & & & & \end{array}$	3-nitro-1-butanol
2	$\begin{array}{ccccccc} & & \text{Cl} & & \text{Cl} & & & & \\ & & & & & & & & \\ \text{H}_3\text{C} & - & \text{C} & - & \text{CH} & - & \text{CH} & - & \text{CH}_3 \\ & & & & & & & & \\ & & \text{Cl} & & \text{OH} & & & & \end{array}$	3,4,4-trichloro-2-pentanol
3	$\begin{array}{ccccccc} & & \text{Cl} & & \text{H}_3\text{C} & - & \text{CH}_2 & - & \text{CH}_2 & - & \text{OH} \\ & & & & & & & & & & \\ \text{H}_3\text{C} & - & \text{CH} & - & \text{C} & - & \text{CH}_2 & - & \text{CH}_3 \\ & & & & & & & & \\ & & & & \text{Cl} & & & & \end{array}$	4,5-dichloro-4-ethyl-1-hexanol
4	$\begin{array}{ccccccc} & & \text{NO}_2 & & & & \\ & & & & & & \\ \text{CH}_3 & - & \text{CH} & - & \text{CH} & - & \text{CH} & - & \text{CH} & - & \text{CH}_3 \\ & & & & & & & & & & \\ & & & & \text{OH} & & & & \text{NO}_2 & & \end{array}$	2,5-dinitro-3-hexanol
5	$\begin{array}{ccccc} & & \text{NH}_2 & & \\ & & & & \\ \text{CH}_3 & - & \text{C} & - & \text{CH}_2 & - & \text{OH} \\ & & & & \\ & & \text{NH}_2 & & \end{array}$	2,2-diaminopropanol
6	$\begin{array}{ccccccc} & & & & \text{H} & & \\ & & & & & & \\ \text{H}_3\text{C} & - & \text{CH} & - & \text{CH} & - & \text{CH}_2 & - & \text{C} & = & \text{O} \\ & & & & & & & & & & \\ & & \text{Cl} & & \text{Cl} & & & & & & \end{array}$	3,4-dichloropentanal
7	$\begin{array}{ccccccc} & & \text{CH}_3 & & & & \text{CH}_3 & & \text{H} \\ & & & & & & & & \\ \text{H}_3\text{C} & - & \text{CH} & - & \text{CH}_2 & - & \text{CH} & - & \text{C} & = & \text{O} \\ & & & & & & & & & & \end{array}$	2,4-dimethylpentanal
8	$\begin{array}{ccccccc} \text{H}_3\text{C} & - & \text{CH}_2 & - & \text{CH}_2 & - & \text{C} & - & \text{CH}_2 & - & \text{CH}_3 \\ & & & & & & & & & & \\ & & & & & & \text{O} & & & & \end{array}$	3-hexanone
9	$\begin{array}{ccccccc} & & \text{NO}_2 & & & & \text{O} \\ & & & & & & \\ \text{H}_3\text{C} & - & \text{C} & - & \text{CH}_2 & - & \text{C} & - & \text{CH}_3 \\ & & & & & & & & \\ & & \text{NO}_2 & & & & & & \end{array}$	4,4-dinitro-2-pentanone
10	$\begin{array}{ccccc} & & \text{CH}_3 & & \\ & & & & \\ \text{CH}_3 & - & \text{C} & - & \text{C} & = & \text{O} \\ & & & & \\ & & \text{Cl} & & \text{H} \end{array}$	2-chloro-2-methylpropanal
11a	$\text{H}_3\text{C} - \text{CH}_2 - \text{CH}_2 - \text{COOH}$	butanoic acid
11b	$\text{H}_3\text{C} - \text{COOH}$	ethanoic acid

Functional Groups Worksheet And Answers

JR Anderson



Functional Groups Worksheet And Answers:

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