

# Functional Groups in Organic Chemistry

## Hydrocarbons



Alkane



Cycloalkane



Alkene



Alkyne



Aromatic  
(Arene)



\* Allene

Asterisks \* indicate that the group is less common, so you can skip them for Organic 1.

## Oxygen-containing



Alcohol



Ether



Epoxide



Peroxide

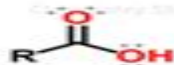
## Carbonyl (C=O) - containing



Aldehyde



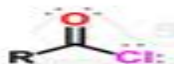
Ketone



Carboxylic Acid



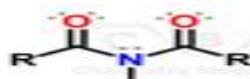
Ester



Acid (acyl)  
chloride



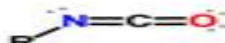
Anhydride



Imide



Cyanate

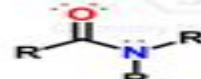


Isocyanate

## Nitrogen-containing



Amine



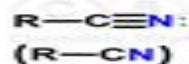
Amide



Azide



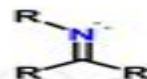
Diazonium Salts



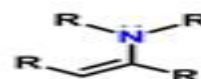
Nitrile



Nitro



Imine



Enamine

## Sulfur-containing



Thiol



Thioether



\* Thioester



\* Thiocyanate



\* Isothiocyanates

# Chemistry Test Functional Groups Chapter 23

**Rosina Ehmman**



## **Chemistry Test Functional Groups Chapter 23:**

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**The Organic Chemistry of Tin** Wilhelm Paul Neumann, 1970 *Patai's 1992 Guide to the Chemistry of Functional Groups* Saul Patai, 1992-04-08 Patai s 1992 Guide to the Chemistry of Functional Groups Saul Patai The Hebrew University of Jerusalem Israel Ever since the publication of the first volume of The Chemistry of Functional Groups in 1964 the Patai series

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**Organic Chemistry** Marye Anne Fox, James K. Whitesell, 2004 Accompanying CD ROM has been enhanced with updated animated illustrations to accompany the presentations and Chem3D files for helpful structure visualization Page 4 of cover

**The Chemistry of Sulphur-Containing Functional Groups, Supplement S** Saul Patai, Zvi Rappoport, 1993-11-16 Leading experts contribute articles dealing with structural theoretical analytical and chemical aspects of the many functional groups containing sulphur

*The Chemistry of Double-bonded Functional Groups* Saul Patai, 1989

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CHEM 130, Theory and Practice of Identification, CHEM 132, Qualitative Organic Analysis Christopher Robert Moylan, 2003

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**Lecture Notes on Clinical Chemistry** Lionel Gordon Whitby, Iain Walter Percy-Robb, Alistair Fairley Smith, 1975

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