

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



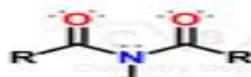
Ester



Acid (acyl)
chloride



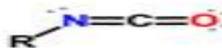
Anhydride



Imide



Cyanate

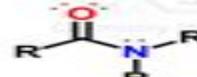


Isocyanate

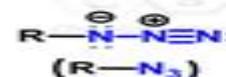
Nitrogen-containing



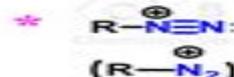
Amine



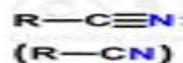
Amide



Azide



Diazonium Salts



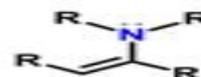
Nitrile



Nitro



Imine



Enamine

Sulfur-containing



Thiol



Thioether



* Thioester



* Thiocyanate



* Isothiocyanates

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S Marginson



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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 *College Chemistry* Peter C. Scott, 1980

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