

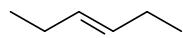


PRINTABLE LIST OF FUNCTIONAL GROUPS ORGANIZED BY TYPE

C=C

Carbon pi-bonded to Carbon

Low oxidation level



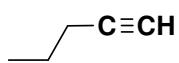
ALKENES



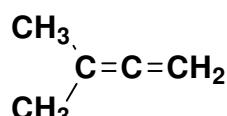
CYCLOALKENES



AROMATICS



ALKYNES
(acetylenes)

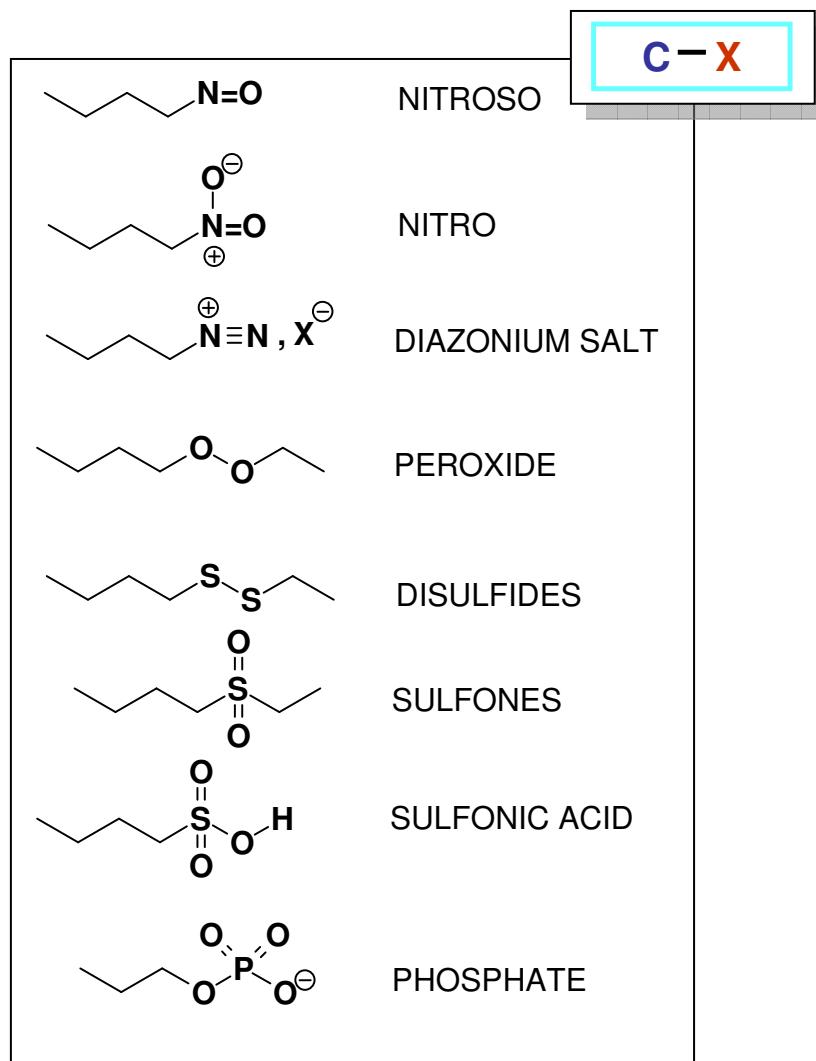


ALLENES

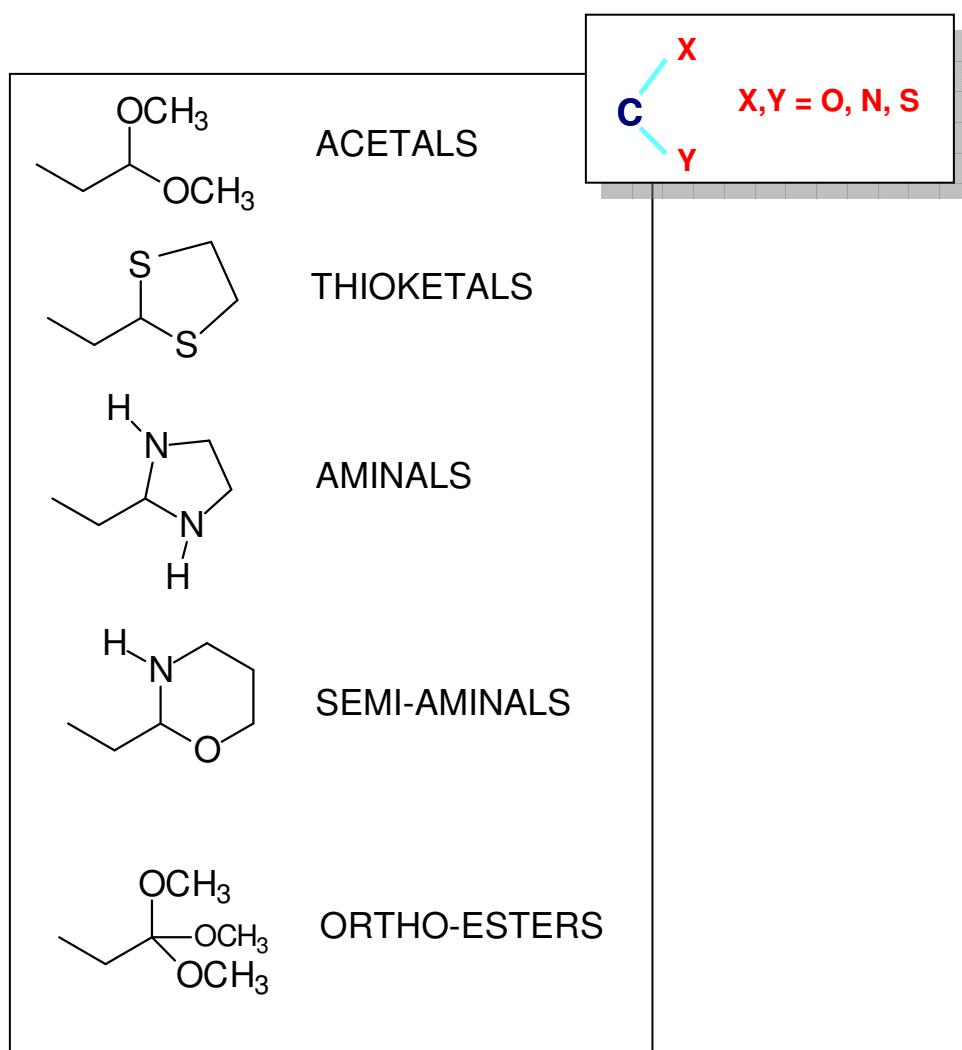
Carbon single-bonded to heteroatom
X = N, O, halides, S.

C – X	
<chem>CCCCCO</chem>	ALCOHOLS
<chem>CCOC</chem>	ETHERS
<chem>CCCCCN</chem>	AMINES
<chem>CCCCCl</chem>	(F, Cl, Br, I) HALIDES
<chem>CCCCS</chem>	THIOLS (MERCAPTANS)
<chem>CCCS</chem>	THIOETHERS (SULFIDES)
<chem>CCCC[O]P(=O)(OH)O</chem>	PHOSPHATES
<chem>CCCCOS(=O)(=O)O</chem>	ORGANIC SULFATES

Carbon single-bonded to heteroatom in higher oxidation level

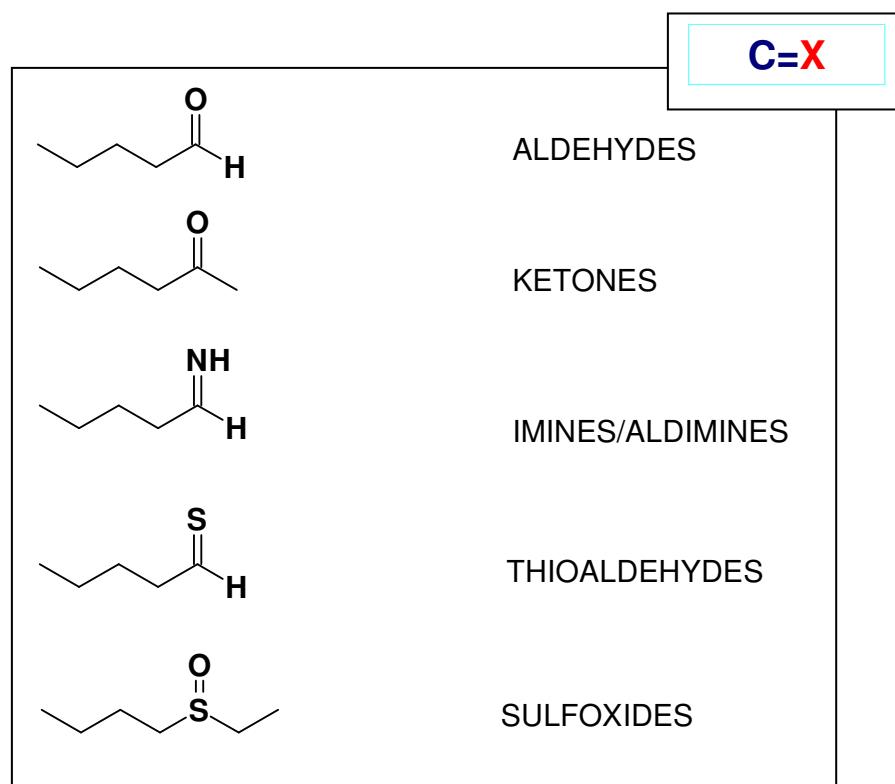


Carbon single-bonded to two or three heteroatoms

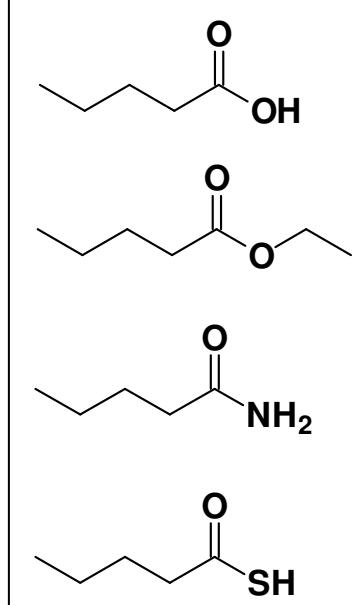




Carbon double-bonded to one heteroatom



Carbon single- and double-bonded to heteroatoms

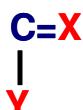


CARBOXYLIC ACIDS

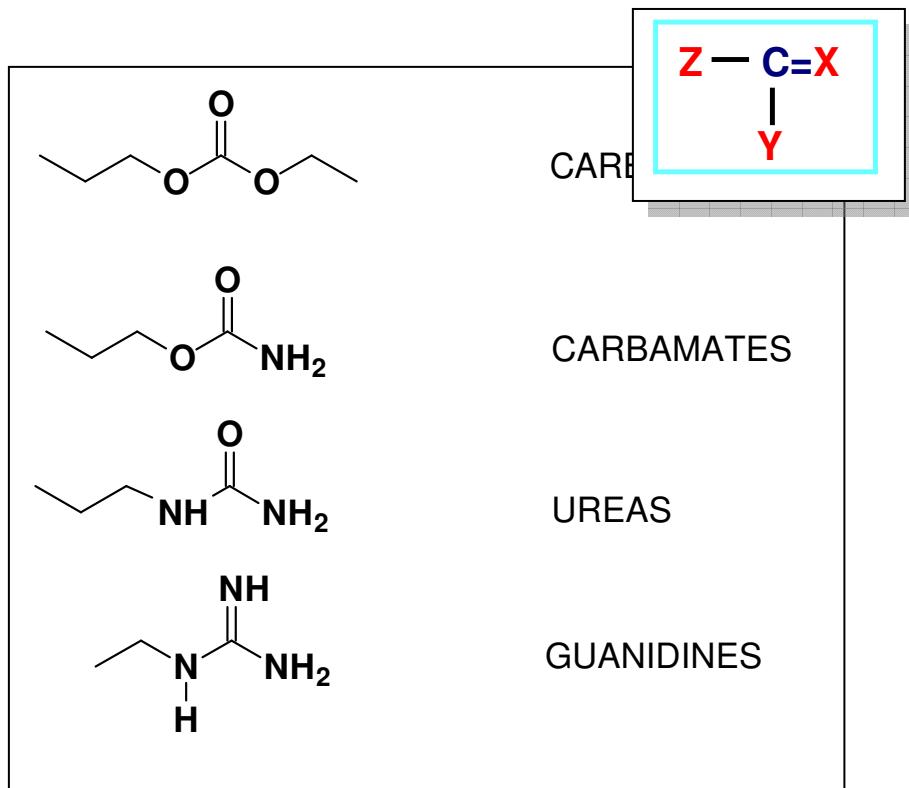
CARBOXYLIC ESTERS

AMIDES

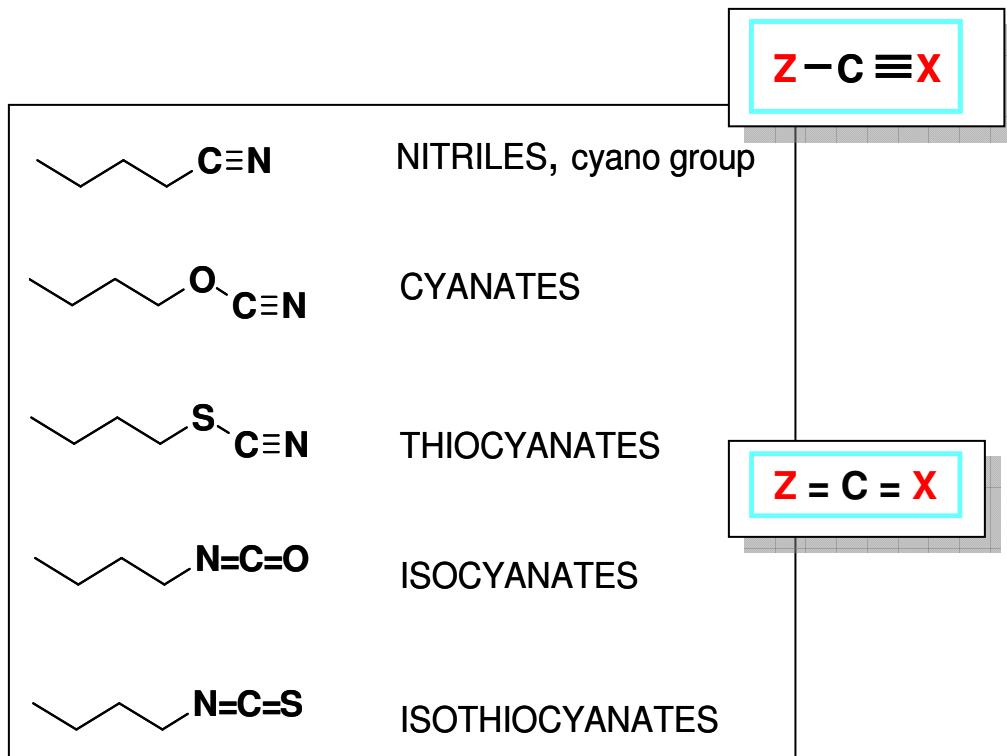
THIOESTERS



Carbon — and — bonded to three heteroatoms



Carbon with multiple - bonds to heteroatoms



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