

Organic Reactions Summary Sheet

Reactants	Products	Conditions	Classification	Example	Uses /Other
Alkanes					
+ Oxygen	Complete: CO ₂ and water Incomplete: CO and water	Little bit of heat to get it going and plenty of oxygen Little bit of heat to get it going, and not enough O ₂ , oxygen is limiting reactant	Combustion (also redox reactions)	$2 \text{C}_8\text{H}_{18} + 13 \text{O}_2 \rightarrow 8 \text{CO}_2 + 10 \text{H}_2\text{O}$ $2 \text{C}_8\text{H}_{18} + 9 \text{O}_2 \rightarrow 8 \text{CO} + 10 \text{H}_2\text{O}$	CO harmful to humans, unburned hydrocarbons produce smog
+ Halogen (F ₂ , Cl ₂ , Br ₂ , I ₂)	haloalkane	UV light, hν	Substitution		
Alkenes					
+ halogen (F ₂ , Cl ₂ , Br ₂ , I ₂)	Dihaloalkane		Addition		Uses: makes starting material for PVC and indication of alkenes Br ₂ dissolved in dichloromethane is used to distinguish between alkenes and alkanes. If reddish-brown color of Br ₂ disappears when added to unknown, the unknown has alkenes in it.
+ hydrogen	Alkane	Platinum or palladium catalyst	Addition (also called reduction)		Hydrogenation of oil for margarine
+ acid halide (HF, HCl, HBr, HI)	Haloalkane		Addition		Haloalkanes are useful starting materials for organic syntheses
+ water	Alcohol	Acid conditions	Addition		commercial manufacture of ethanol
Alcohols					
+ Carboxylic acid	Ester + water	Acidic solution and heat	Condensation		Esters are used in flavouring agents, plasticizers, as solvents in perfume, polyester
+ oxidizing agent (KMnO ₄ or K ₂ Cr ₂ O ₇)	Primary: Aldehyde	For incomplete oxidation: Distillation in acidic aqueous soln	Oxidation		

Organic Chemistry Reactions Summary Sheet

RJ Alexander



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emphasis throughout on how and why organic compounds behave in the way they do with a chapter on how mechanisms are investigated and the closing chapter describing the principal methods by which the structure and composition of organic compounds are studied With an understanding of organic chemistry being central to the study and practice of a range of disciplines Organic Chemistry is the ideal resource for those studying a one or two semester organic chemistry course as part of a broader programme of study in the physical and life sciences Online Resource Centre For registered adopters of the book Figures from the book in electronic format Answers to end of chapter problems Examples of organic synthesis reactions related to topics covered in the book for use in teaching Additional problems with answers to augment those included in the book For students Answers to in chapter exercises 3D rotatable models of numerous compounds featured in the book Multiple choice questions for each chapter to help students check their understanding of topics they have learned

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Organic Chemistry as a Second Language David R. Klein, 2004-03-12 Organic chemistry is a challenging subject with many students expecting it to require many hours of memorization Author David Klein s Second Language books prove this is not true organic chemistry is one continuous story that actually makes sense if you pay close attention Klein s books use a conversational tone making them more accessible and easier to read for students Organic Chemistry as a Second Language Second Semester Topics 6e builds on the principles explored in the first half of the course delving deeper into molecular mechanisms reactions and analytical techniques Using Klein s one of a kind SkillBuilder approach the book includes hands on exercises and thoroughly explained solutions designed to further reinforce student comprehension of chemical concepts and organic principles An indispensable supplement to the primary text this resource covers aromatic compounds infrared IR and nuclear magnetic resonance NMR spectroscopy nucleophilic and electrophilic aromatic substitution ketones and aldehydes carboxylic acid derivatives and much more Organic Chemistry as a Second Language Second Semester Topics 6e teaches students how to ask the right questions to solve problems study more efficiently and learn to speak the language of organic chemistry Like its first semester companion title it is an essential guide on the side for any organic chemistry student no matter what textbook or instructor provided lecture material is used The inclusion of new end of chapter problems providing both practice and challenge will prepare students and build confidence come exam time as well as outside the classroom

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