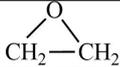
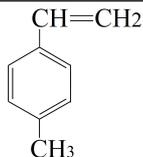
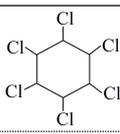


课本有机物名称汇总 (新教材)

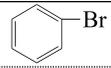
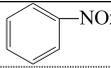
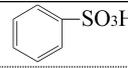
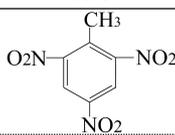
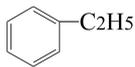
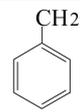
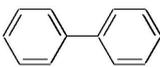
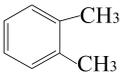
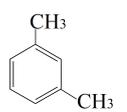
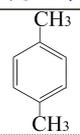
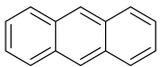
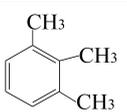
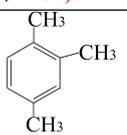
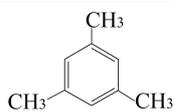
1. 烷烃类

结构简式	$\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_3$	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_3 \\ \\ \text{CH}_3 \end{array}$		$\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_3$
名称	正丁烷 (丁烷)	异丁烷 (2-甲基丙烷)	环氧乙烷	正戊烷 戊烷
结构简式	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_2\text{-CH-CH}_3 \\ \qquad \qquad \\ \text{CH}_3 \qquad \qquad \text{C}_2\text{H}_5 \end{array}$	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_2\text{-CH}_3 \\ \\ \text{CH}_3 \end{array}$	$\begin{array}{c} \text{CH}_3 \\ \\ \text{CH}_3\text{-C-CH}_3 \\ \\ \text{CH}_3 \end{array}$	$\begin{array}{c} \text{CH}_3 \\ \\ \text{CH}_3\text{-CH-CH-C-CH}_2\text{-CH}_3 \\ \quad \quad \\ \text{CH}_3 \quad \text{CH}_3 \quad \text{CH}_3 \end{array}$
名称	2,4-二甲基己烷	异戊烷 2-甲基丁烷	新戊烷 2,2-二甲基丙烷	2,3,4,4-四甲基己烷
结构简式	$\begin{array}{c} \text{CH}_3\text{-CH-CH-CH}_2\text{-CH}_2\text{-CH}_3 \\ \quad \\ \text{CH}_3 \quad \text{CH}_3 \end{array}$	$\begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \\ \quad \\ \text{CH}_3\text{-C-C-CH}_3 \\ \quad \\ \text{CH}_3 \quad \text{CH}_3 \end{array}$	$\begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \\ \quad \\ \text{CH}_3\text{-C-CH-CH}_3 \\ \\ \text{C}_2\text{H}_5 \end{array}$	$\text{CHBr}_2\text{-CHBr}_2$
名称	2,3-二甲基己烷	2,2,3,3-四甲基丁烷	2,3,3-三甲基戊烷	1,1,2,2-四溴乙烷

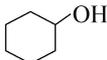
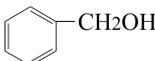
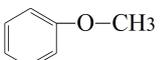
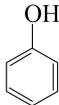
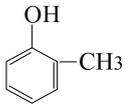
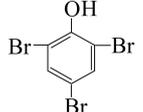
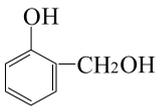
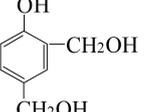
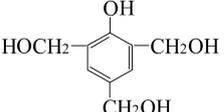
2. 烯烃、环烷、炔烃类

结构简式	$\text{CH}_2=\text{CH-CH}_2\text{-CH}_3$	$\text{CH}_2=\text{CH-CH}_2\text{-CH}_2\text{-CH}_3$	$\begin{array}{c} \text{CH}_3=\text{C-CH}_3 \\ \\ \text{CH}_3 \end{array}$	$\text{CH}_2=\text{CHCl}$
名称	1-丁烯	1-戊烯	异丁烯 (2-甲基丙烯)	氯乙烯
结构简式	$\text{CHBr}=\text{CHBr}$	$\begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \\ \diagdown \quad / \\ \text{C}=\text{C} \\ / \quad \diagdown \\ \text{H} \quad \text{H} \end{array}$	$\begin{array}{c} \text{CH}_3 \quad \text{H} \\ \diagdown \quad / \\ \text{C}=\text{C} \\ / \quad \diagdown \\ \text{H} \quad \text{CH}_3 \end{array}$	$\text{CH}_2=\text{CH-CH}=\text{CH}_2$
名称	1,2-二溴乙烯	顺-2-丁烯	反-2-丁烯	1,3-丁二烯
结构简式		$\text{CH}_2=\text{CH-CH-CH}_3$ $\quad \quad \quad $ $\quad \quad \quad \text{C}_2\text{H}_5$	$\text{CH}_2=\text{C-CH}=\text{CH}_2$ $\quad \quad \quad $ $\quad \quad \quad \text{CH}_3$	$\text{CH}\equiv\text{C-CH-CH}_3$ $\quad \quad \quad $ $\quad \quad \quad \text{CH}_3$
名称	4-甲基苯乙烯	3-甲基-1-戊烯	异戊二烯 2-甲基-1,3-丁二烯	3-甲基-1-丁炔
结构简式				
名称	环戊烷	六氯环己烷(六六六)	环己烷	

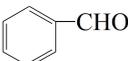
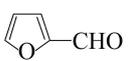
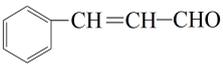
3. 芳香类

结构简式				
名称	溴苯	硝基苯	苯磺酸	萘
结构简式				
名称	2,4,6-三硝基甲苯(TNT)	乙苯	氯化苄	联苯
结构简式				
名称	邻二甲苯 (1,2-二甲苯)	间二甲苯 (1,3-二甲苯)	对二甲苯 (1,4-二甲苯)	蒽
结构简式				
名称	连三甲苯 (1,2,3-三甲苯)	偏三甲苯 (1,2,4-三甲苯)	均三甲苯 (1,3,5-三甲苯)	

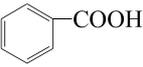
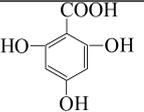
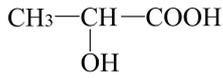
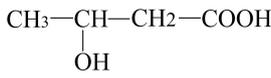
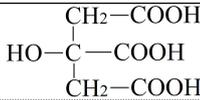
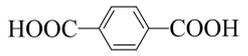
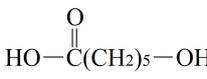
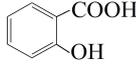
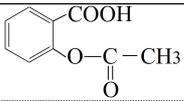
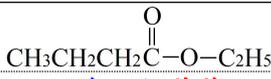
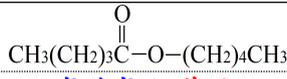
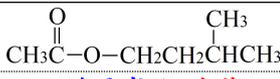
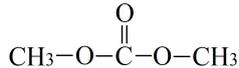
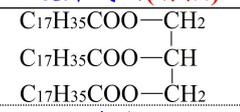
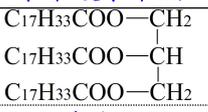
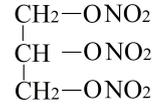
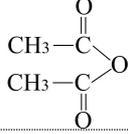
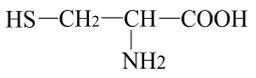
4. 卤代烃、醇、醚、酚类

结构简式	$\text{CF}_2=\text{CF}_2$	$\begin{array}{c} \text{CH}_3-\text{CH}-\text{CH}_2-\text{CH}_3 \\ \\ \text{Cl} \end{array}$	$\text{CH}_2\text{Br}-\text{CH}_2\text{Br}$	
名称	四氟乙烯	2-氯丁烷	1,2-二溴乙烷	1,4-二氧六环 (二噁烷)
结构简式	$\text{CH}_3\text{CH}_2\text{Br}$	CH_3Cl	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{Cl}$	
名称	溴乙烷	氯甲烷	1-氯戊烷	环己醇
结构简式	$\begin{array}{c} \text{CH}_3-\text{CH}_2-\text{CH}_2 \\ \\ \text{OH} \end{array}$	$\begin{array}{c} \text{CH}_3-\text{CH}-\text{CH}_3 \\ \\ \text{OH} \end{array}$		$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$
名称	正丙醇 (1-丙醇)	异丙醇 (2-丙醇)	苯甲醇	正戊醇
结构简式	$\begin{array}{c} \text{CH}_2-\text{OH} \\ \\ \text{CH}_2-\text{OH} \end{array}$	$\begin{array}{c} \text{CH}_2-\text{OH} \\ \\ \text{CH}-\text{OH} \\ \\ \text{CH}_2-\text{OH} \end{array}$	$\begin{array}{c} \text{CH}_2-\text{OH} \\ \\ \text{CH}_2 \\ \\ \text{CH}_2-\text{OH} \end{array}$	CH_3OCH_3
名称	乙二醇	丙三醇 (甘油)	1,3-丙二醇	二甲醚
结构简式	$\text{C}_2\text{H}_5-\text{O}-\text{C}_2\text{H}_5$			
名称	乙醚	苯甲醚	苯酚	邻甲基苯酚
结构简式				
名称	2,4,6-三溴苯酚	2-羟甲基苯酚	2,4-二羟甲基苯酚	2,4,6-三羟甲基苯酚

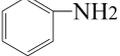
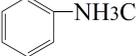
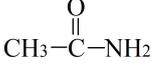
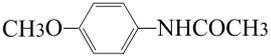
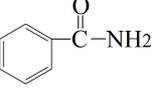
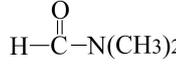
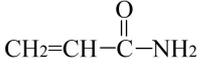
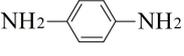
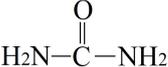
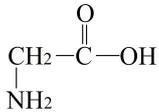
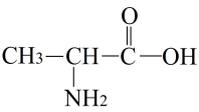
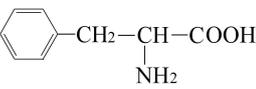
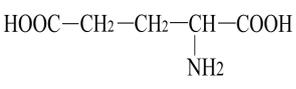
5. 醛酮类

结构简式	HCHO	CH_3CHO		
名称	甲醛 (蚁醛)	乙醛	苯甲醛	糠醛
结构简式		$\begin{array}{c} \text{O} \\ \\ \text{CH}_3-\text{C}-\text{CH}_3 \end{array}$	$\begin{array}{c} \text{O} \\ \\ \text{CH}_3-\text{C}-\text{CH}_2-\text{CH}_3 \end{array}$	$\begin{array}{c} \text{O} \\ \\ \text{Cl}-\text{C}-\text{Cl} \end{array}$
名称	肉桂醛	丙酮	2-丁酮 (甲乙酮或丁酮)	碳酰氯 (光气)
结构简式	$\begin{array}{c} \text{O} \\ \\ \text{CH}_3\text{CH}_2-\text{C}-\text{CH}_2\text{CH}_2\text{CH}_3 \end{array}$	$\begin{array}{c} \text{CH}_3-\text{CH}-\text{CN} \\ \\ \text{OH} \end{array}$	$\text{CH}_2=\text{CH}-\text{CN}$	
名称	3-己酮	2-羟基丙腈	丙烯腈	

6. 羧酸、酯类

结构简式	HCOOH	CH₃COOH	CH₃CH₂COOH	CH₃CH₂CH₂COOH
名称	甲酸(蚁酸)	乙酸	丙酸	正丁酸
结构简式	CH₂=CHCOOH			
名称	丙烯酸	苯甲酸	邻甲基苯甲酸	没食子酸
结构简式	C₁₇H₃₃COOH	C₁₇H₃₁COOH	CH₃(CH₂)₁₆COOH 或 C₁₇H₃₅COOH	
名称	油酸 9-十八碳烯酸	亚油酸 9,12-十八碳二烯酸	硬脂酸(十八酸)	乙二酸(草酸)
结构简式				
名称	乳酸(2-羟基丙酸)	3-羟基丁酸	柠檬酸	对苯二甲酸
结构简式	HOOC-(CH₂)₄-COOH			
名称	己二酸	6-羟基己酸	水杨酸	乙酰水杨酸
结构简式		HOOC(CH₂)₃COOH	CH₃COOC₂H₅	CH₃COOCH=CH₂
名称	苯氧乙酸	戊二酸	乙酸乙酯	乙酸乙烯酯
结构简式				
名称	丁酸乙酯(菠萝)	戊酸戊酯(苹果)	乙酸异戊酯(香蕉)	苯甲酸苯甲酯
结构简式				
名称	乙二酸二乙酯	碳酸二甲酯	硬脂酸甘油酯	油酸甘油酯
结构简式				
名称	硝化甘油 三硝酸甘油酯	乙酸酐	半胱氨酸 2-氨基-3-巯基丙酸	

7. 胺、酰胺、氨基酸类

结构简式	CH₃NH₂			
名称	甲胺	苯胺	苯胺盐酸盐	乙酰胺
结构简式				
名称	对甲氧基乙酰苯胺	苯甲酰胺	N,N-二甲基甲酰胺	丙烯酰胺
结构简式	NH₂-(CH₂)₆-NH₂			
名称	己二胺	对苯二胺	N-甲基乙酰胺	尿素
结构简式				
名称	甘氨酸 氨基乙酸	丙氨酸 2-氨基丙酸	苯丙氨酸 2-氨基-3-苯基丙酸	谷氨酸 2-氨基戊二酸

8. 糖类

结构简式	$C_6H_{12}O_6$ $CH_2OH(CHOH)_4CHO$	$C_6H_{12}O_6$ $CH_2OH(CHOH)_3-\overset{O}{\parallel}{C}-CH_2OH$	$C_{12}H_{22}O_{11}$	$CH_2-CH-CHO$ $OH \quad OH$
名称	葡萄糖	果糖	蔗糖、麦芽糖分子式	丙醛糖 (甘油醛)
结构简式	$(C_6H_{10}O_5)_n$	$C_5H_{10}O_5$ $CH_2OH(CHOH)_3CHO$	$C_5H_{10}O_4$ $CH_2OH(CHOH)_2CH_2CHO$	$CH_2OH(CHOH)_3CH_2OH$
名称	淀粉、纤维素分子式	核糖	脱氧核糖	木糖醇

9. 高分子类

结构简式	$\{CH_2-CH_2\}_n$	$\left\{ \begin{array}{c} CH-CH_2 \\ \\ Cl \end{array} \right\}_n$	$\{CF_2-CF_2\}_n$	$\{CH=CH\}_n$
名称	聚乙烯	聚氯乙烯	塑料王(聚四氟乙烯)	聚乙炔
结构简式	$\left\{ \begin{array}{c} CH_2-CH \\ \\ COONa \end{array} \right\}_n$	$\left\{ \begin{array}{c} CH-CH_2 \\ \\ CH_3 \end{array} \right\}_n$	$\left\{ \begin{array}{c} CH-CH_2 \\ \\ CN \end{array} \right\}_n$	$\left[\begin{array}{c} CH_2 \quad CH_2 \\ \diagdown \quad / \\ C=C \\ / \quad \diagdown \\ H \quad H \end{array} \right]_n$
名称	聚丙烯酸钠	丙烯 聚丙烯	腈纶 聚丙烯腈	顺丁橡胶 顺式聚-1,3-丁二烯
结构简式	$\left\{ \begin{array}{c} CH_2-C=CH-CH_2 \\ \\ CH_3 \end{array} \right\}_n$	$\left\{ \begin{array}{c} CH_2-C=CH-CH_2 \\ \\ Cl \end{array} \right\}_n$	$\left[\begin{array}{c} CH_2 \quad CH_2 \\ \diagdown \quad / \\ C=C \\ / \quad \diagdown \\ CH_3 \quad H \end{array} \right]_n$	$\left[\begin{array}{c} CH_2 \quad H \\ \diagdown \quad / \\ C=C \\ / \quad \diagdown \\ CH_3 \quad CH_2 \end{array} \right]_n$
名称	聚异戊二烯 聚-2-甲基-1,3-丁二烯	氯丁橡胶 聚-2-氯-1,3-丁二烯	天然橡胶 顺式聚异戊二烯	杜仲胶 反式聚异戊二烯
结构简式	$\left\{ \begin{array}{c} CH_3 \\ \\ CH_2-C \\ \\ COOCH_3 \end{array} \right\}_n$	$\left\{ \begin{array}{c} CH-CH_2-CH_2-CH=CH-CH_2 \\ \\ \text{苯环} \end{array} \right\}_n$		$\left\{ \begin{array}{c} CH-CH_2 \\ \\ \text{苯环} \end{array} \right\}_n$
名称	有机玻璃 聚甲基丙烯酸甲酯	丁苯橡胶		聚苯乙烯
结构简式	$\left\{ \begin{array}{c} CH-CH_2 \\ \\ COOH \end{array} \right\}_n$	$HO \left[\begin{array}{c} O \\ \\ C-(CH_2)_4-C-O-CH_2-CH_2-O \end{array} \right]_n H$		$H \left[\begin{array}{c} OH \\ \\ \text{苯环} \\ \\ CH_2 \end{array} \right]_n OH$
名称	聚丙烯酸	聚己二酸乙二酯		酚醛树脂
结构简式	$HO \left[\begin{array}{c} O \\ \\ C-(CH_2)_5-O \end{array} \right]_n H$	$HO \left[\begin{array}{c} O \\ \\ C-\text{苯环}-C-O-(CH_2)_4-O \end{array} \right]_n H$		$H \left[\begin{array}{c} O \\ \\ O-CH-C \\ \\ C_2H_5 \end{array} \right]_n OH$
名称	聚-6-羟基己酸酯	聚对苯二甲酸丁二酯		聚-2-羟基丁酸酯
结构简式	$H \left[\begin{array}{c} O \\ \\ NH-C-NH-CH_2 \end{array} \right]_n OH$	$H \left[\begin{array}{c} O \\ \\ NH-CH_2-C-NH-CH-C \\ \\ CH_2 \\ \\ \text{苯环} \end{array} \right]_n OH$		$HO \left[\begin{array}{c} O \\ \\ C-(CH_2)_4-C-NH-(CH_2)_6-NH \end{array} \right]_n H$
名称	脲醛树脂	甘氨酸与苯丙氨酸形成的多肽		锦纶 66 或尼龙 66 聚己二酰己二胺纤维
结构简式	$H \left[\begin{array}{c} O \\ \\ O-CH-C \\ \\ CH_3 \end{array} \right]_n OH$	$HO \left[\begin{array}{c} O \\ \\ C-\text{苯环}-C-O-CH_2-CH_2-O \end{array} \right]_n H$		$HO \left[\begin{array}{c} O \\ \\ C-\text{苯环}-C-NH-\text{苯环}-NH \end{array} \right]_n H$
名称	聚乳酸	涤纶 聚对苯二甲酸乙二酯		芳纶 1414 或凯夫拉 聚对苯二甲酰对苯二胺纤维