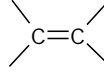


ORGANİK KİMYA GİRİŞ

ALKAN (–)

Düz Zincirli/Dallanmış → C_nH_{2n+2} ($n \geq 1$) → R – H veya R – R
Halkalı (Sikloalkan) → C_nH_{2n} ($n \geq 3$)

ALKEN (=)

Düz Zincirli/Dallanmış → C_nH_{2n} ($n \geq 2$) → 
Halkalı (Sikloalken) → C_nH_{2n-2} ($n \geq 3$)
Dien (2 tane =) → C_nH_{2n-2}

ALKİN (≡)

Düz Zincirli/Dallanmış → C_nH_{2n-2} ($n \geq 2$) → – C ≡ C –

ALKOL (–OH)

Düz Zincirli/Dallanmış → $C_nH_{2n+2}O$ ($n \geq 1$) → R – OH veya $C_nH_{2n+1}OH$

ETER (–O–)

Düz Zincirli/Dallanmış → $C_nH_{2n+2}O$ ($n \geq 2$) → R – O – R

ALDEHİT (–C(=O)–H)

Düz Zincirli/Dallanmış → $C_nH_{2n}O$ ($n \geq 1$) → R – CHO veya $R-C(=O)H$

KETON (–C(=O)–)

Düz Zincirli/Dallanmış → $C_nH_{2n}O$ ($n \geq 3$) → $R-C(=O)-R$

KARBOKSİLLİ ASİT (–C(=O)–OH)

Düz Zincirli/Dallanmış → $C_nH_{2n}O_2$ ($n \geq 1$) → R – COOH

ESTER (–C(=O)–OR)

Düz Zincirli/Dallanmış → $C_nH_{2n}O_2$ ($n \geq 2$) → R – COOR

AMİN (–N–)

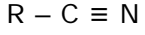
R – NH₂ (1° amin) $\begin{array}{c} R-NH \\ | \\ R \end{array}$ (2° amin) $\begin{array}{c} R-N-R \\ | \\ R \end{array}$ (3° amin)

AMİT (–C(=O)–NH₂)

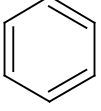
$\begin{array}{c} O \\ || \\ R-C-NH_2 \end{array}$ (1° amit) $\begin{array}{c} O \\ || \\ R-C-NH \\ | \\ R \end{array}$ (2° amit) $\begin{array}{c} O \\ || \\ R-C-N-R \\ | \\ R \end{array}$ (3° amit)

AMİNOASİT (-NH₂ & -COOH)

NİTRİL (-C≡N)

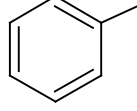


AROMATİK BİLEŞİKLER (ARENLER)

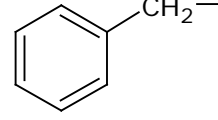


Benzen (C₆H₆)

(Aren)

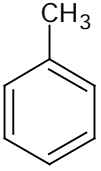


Fenil (-C₆H₅)

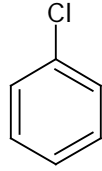


Benzil (-CH₂-C₆H₅)

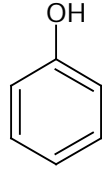
(Aril grupları)



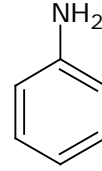
Metil benzen
(TOLUEN)



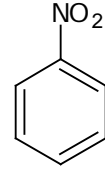
Klor benzen



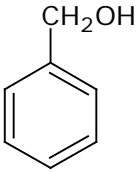
Hidroksi benzen
(FENOL)



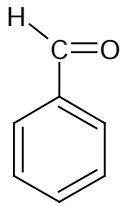
Amino benzen
(ANİLİN)



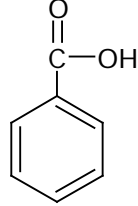
Nitro benzen



Benzil alkol

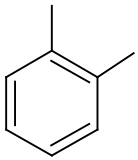


Benzaldehit

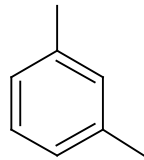


Benzoik asit

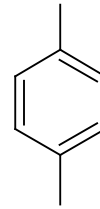
Benzen halkasına iki grup bağlanması:



1,2- veya **orto (o-)**

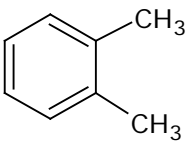


1,3- veya **meta (m-)**

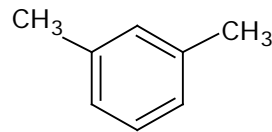


1,4- veya **para (p-)**

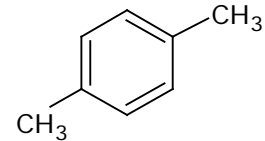
Dimetil benzen = KSİLEN



o-KSİLEN



m-KSİLEN



p-KSİLEN