

Hisoblash	Alkanol	Alkan diol	Alkan triol	Fenol	Aldegid	Keton
Umumiy formulasi	$C_nH_{2n+1}OH$ $C_nH_{2n+2}O$	$C_nH_{2n}(OH)_2$ $C_nH_{2n+2}O_2$	$C_nH_{2n-1}(OH)_3$ $C_nH_{2n+2}O_3$	$C_nH_{2n-7}OH$ $C_nH_{2n-6}O$	$C_nH_{2n}O$ $C_nH_{2n+1}CHO$	$C_nH_{2n}O$ $(C_nH_{2n+1})_2CO$
Molekular massasi	$14n+18$	$14n+34$	$14n+50$	$14n+10$	$14n+16$	$14n+16$
Uglerod atomlari soni	n	n	n	n	n	n
Vodorod atomlari soni	$2n+2$	$2n+2$	$2n+2$	$2n-6$	$2n$	$2n$
n-(uglerod) eng kichik qiymati	1	2	3	6	1	3
Uglerod-uglerod bog'lari(C-C)	$n-1$	$n-1$	$n-1$	$n+3$	$n-1$	$n-1$
Uglerod-vodorod bog'lari(C-H)	$2n+1$	$2n$	$2n-1$	$2n-7$	$2n$	$2n$
Qutbsiz bog'lar (polyarmas bog'lar)	$n-1$	$n-1$	$n-1$	$n+3$	$n-1$	$n-1$
Qutbli bog'lar (polyar bog'lar)	$2n+2$	$2n+2$	$2n+2$	$2n-6$	$2n+2$	$2n+2$
sp ³ -gibrild orbital(molekulada)	$4n+4$	$4n+8$	$4n+12$	$4n-20$	$4n-4$	$4n-4$
Gibrild orbitalalar(molekulada)	$4n+4$	$4n+8$	$4n+12$	$4n-2$	$4n+2$	$4n+2$
Gibrildanmagan orbitallar	$2n+2$	$2n+2$	$2n+2$	$2n$	$2n+2$	$2n+2$
Atomlar soni	$3n+3$	$3n+4$	$3n+5$	$3n-5$	$3n+1$	$3n+1$
Uglerod atomi oksidlanish darajasi yig'indisi	$-2n$	$-(2n-2)$	$-(2n-4)$	$-(2n-8)$	$-(2n-2)$	$-(2n-2)$
Jami bog'lar soni	$3n+2$	$3n+3$	$3n+4$	$3n-2$	$3n+1$	$3n+1$
Jami o-bog'lar soni	$3n+2$	$3n+3$	$3n+4$	$3n-5$	$3n$	$3n$
Bog' hosil qilishdagi orbitallar soni	$6n+4$	$6n+6$	$6n+8$	$6n-4$	$6n+2$	$6n+2$
Bog'lanishdagi orbitallar soni	$6n+4$	$6n+6$	$6n+8$	$6n-4$	$6n+2$	$6n+2$
o-bog' hosil qilishdagi orbital lar soni	$6n+4$	$6n+6$	$6n+8$	$6n-10$	$6n$	$6n$
1 moli yonganda CO ₂ koef.	n	n	n	n	n	n
1 moli yonganda H ₂ O koef.	$n+1$	$n+1$	$n+1$	$n-3$	n	n
1 moli yonganda O ₂ koef	$1,5n$	$1,5n-0,5$	$1,5n-1$	$1,5n-2$	$1,5n-0,5$	$1,5n-1,5$
1 moli yonganda CO ₂ massasi	$44n$	$44n$	$44n$	$44n$	$44n$	$44n$
1 moli yonganda H ₂ O massasi	$18n+18$	$18n+18$	$18n+18$	$18n-54$	$18n$	$18n$
Jami protonlar soni	$8n+10$	$8n+18$	$8n+26$	$8n+2$	$8n+8$	$8n+8$
Jami elektronlar soni	$8n+10$	$8n+18$	$8n+26$	$8n+2$	$8n+8$	$8n+8$
Jami neytronlar soni(¹² C)	$6n+8$	$6n+16$	$6n+24$	$6n+8$	$6n+8$	$6n+8$
Jami zarrachalar soni (proton+elektron+neytron)	$22n+28$	$22n+52$	$22n+76$	$22n+12$	$22n+24$	$22n+24$
Jami neytronlar soni (¹³ C)	$7n+8$	$7n+16$	$7n+24$	$7n+8$	$7n+8$	$7n+8$
Jami neytronlar soni (¹⁴ C)	$8n+8$	$8n+16$	$8n+24$	$8n+8$	$8n+8$	$8n+8$
sp ³ -s qoplanish(bog'lanish)	$2n+2$	$2n+2$	$2n+2$	$3n-17$	$2n-1$	$2n$
sp ³ -sp ³ -qoplanish soni (bog'lanishlar soni)	n	$n+1$	$n+2$	$n-7$	$n-2$	$n-3$
Umumiy yonish tenglamasida chap tomon koef. yig'indisi	$1,5n+1$	$1,5n+0,5$	$1,5n$	$1,5n-1$	$1,5n+0,5$	$1,5n+0,5$
Umumiy yonish tenglamasida o'ng tomon koef. yig'indisi	$2n+1$	$2n+1$	$2n+1$	$2n-3$	$2n$	$2n$
Umumiy yonish tenglamasida o'ng va chap tomon koef. ayirmasi	$0,5n$	$0,5n+0,5$	$0,5n+1$	$0,5n-2$	$0,5n-0,5$	$0,5n-0,5$
Umumiy yonish tenglamasida o'ng va chap tomon koef. yig'indisi	$3,5n+2$	$3,5n+1,5$	$3,5n+1$	$3,5n-4$	$3,5n+0,5$	$3,5n+0,5$
(C-H) + (C-C) bog'lari yig'indisi	$3n$	$3n-1$	$3n-2$	$3n-4$	$3n-1$	$3n-1$
(C-H) - (C-C) bog'lari ayirmasi	$n+2$	$n+1$	n	$n-4$	$n+1$	$n+1$
Qutbli bog' va qutbsiz bog' yig'indisi	$3n+1$	$3n+1$	$3n+1$	$3n-3$	$3n+1$	$3n+1$
Qutbli bog' va qutbsiz bog' ayirmasi	$n+3$	$n+3$	$n+3$	$n-9$	$n+3$	$n+3$
sp ³ -gibrild orbital(bog'lanishda)	$4n+2$	$4n+4$	$4n+6$	$4n-22$	$4n-4$	$4n-4$
Gibrild orbitalalar(bog'lanishdagi)	$4n+2$	$4n+4$	$4n+6$	$4n-4$	4n	4n

*Chumoli aldegid sp³-s qolanish yo'q umumiy formulaga bo'ysunmaydi

*Fenol sp³-sp³ qoplanish yo'q umumiy formulaga bo'ysunmaydi

*Chumoli aldegidda sp³-sp³ yo'q umumiy formulaga bo'ysunmaydi

Hisoblash	To'yingan mono kislota	To'yingan dikarbon kislota	Murakkab efir (to'yingan)	Oddiy efir (to'yingan)	Mono saxarid
Umumiy formulasi	$C_nH_{2n}O_2$ $C_nH_{2n+1}COOH$	$C_nH_{2n-2}O_4$ $(CH_2)_n(COOH)_2$	$C_nH_{2n}O_2$ $(C_nH_{2n+1})_2COO$	$C_nH_{2n+2}O$ $(C_nH_{2n+1})_2O$	$C_nH_{2n}O_n$ $(CH_2O)_n$
Molekular massasi	$14n+32$	$14n+62$	$14n+32$	$14n+18$	$30n$
Uglerod atomlari soni	n	n	n	n	n
Vodorod atomlari soni	$2n$	$2n-2$	$2n$	$2n+2$	$2n$
n -(uglerod) eng kichik qiymati	1	2	2	2	3
Uglerod-uglerod bog'lari(C-C)	$n-1$	$n-1$	$n-2$	$n-2$	$n-1$
Uglerod-vodorod bog'lari(C-H)	$2n-1$	$2n-4$	$2n$	$2n+2$	$n+1$
Qutbsiz bog'lar (polyarmas bog'lar)	$n-1$	$n-1$	$n-2$	$n-2$	$n-1$
Qutbli bog'lar (polyar bog'lar)	$2n$	$2n-2$	$2n$	$2n+2$	$2n$
sp^3 -gibrild orbital(molekuladagi)	$4n$	$4n$	$4n$	$4n+4$	$8n-8$
Gibrild orbitallar(molekuladagi)	$4n+6$	$4n+12$	$4n+6$	$4n+4$	$8n-2$
Gibrildanmagan orbitallar	$2n+2$	$2n+2$	$2n+2$	$2n+2$	$2n+2$
Atomlar soni	$3n+2$	$3n+2$	$3n+2$	$3n+3$	$4n$
Uglerod atomi oksidlanish darajasi yig'indisi	$-(2n-4)$	$-(2n-10)$	$-(2n-4)$	$-2n$	0 =formula shart emas
Jami bog'lar soni	$3n+2$	$3n+3$	$3n+2$	$3n+2$	$4n$
Jami σ -bog'lar soni	$3n+1$	$3n+1$	$3n+1$	$3n+2$	$4n-1$
Bog' hosil qilishdagi orbitallar soni	$6n+4$	$6n+6$	$6n+4$	$6n+4$	$8n$
Bog'lanishdagi orbitallar soni	$6n+4$	$6n+6$	$6n+4$	$6n+4$	$8n$
σ -bog' hosil qilishdagi orbitallar soni	$6n+2$	$6n+2$	$6n+2$	$6n+4$	$8n-2$
1 moli yonganda CO_2 koef.	n	n	n	n	n
1 moli yonganda H_2O koef.	n	$n-1$	n	$n+1$	n
1 moli yonganda O_2 koef	$1,5n-1$	$1,5n-2,5$	$1,5n-1$	$1,5n$	n
1 moli yonganda CO_2 massasi	$44n$	$44n$	$44n$	$44n$	$44n$
1 moli yonganda H_2O massasi	$18n$	$18n-18$	$18n$	$18n+18$	$18n$
Jami protonlar soni	$8n+16$	$8n+30$	$8n+16$	$8n+10$	$16n$
Jami elektronlar soni	$8n+16$	$8n+30$	$8n+16$	$8n+10$	$16n$
Jami neytronlar soni(^{12}C)	$6n+16$	$6n+32$	$6n+16$	$6n+16$	$14n$
Jami zarrachalar soni (proton+elektron+neytron)	$22n+48$	$22n+92$	$22n+48$	$22n+36$	$22n+46$
Jami neytronlar soni (^{13}C)	$7n+16$	$7n+32$	$7n+16$	$7n+16$	$15n$
Jami neytronlar soni (^{14}C)	$8n+16$	$8n+32$	$8n+16$	$8n+16$	$16n$
Umumiy yonish tenglamasida chap tomon koef. yig'indisi	$1,5n$	$1,5n-1,5$	$1,5n$	$1,5n+1$	$n+1$
Umumiy yonish tenglamasida o'ng tomon koef. yig'indisi	$2n$	$2n-1$	$2n$	$2n+1$	$2n$
Umumiy yonish tenglamasida o'ng va chap tomon koef. ayirmasi	$0,5n$	$0,5n+0,5$	$0,5n$	$0,5n$	$n-1$
Umumiy yonish tenglamasida o'ng va chap tomon koef. yig'indisi	$3,5n$	$3,5n-2,5$	$3,5n$	$3,5n+2$	$3n+1$
(C-H) + (C-C) bog'lari yig'indisi	$3n-2$	$3n-5$	$3n-2$	$3n$	$2n$
(C-H) - (C-C) bog'lari ayirmasi	n	$n-3$	$n+2$	$n+4$	2
sp^3 -s qoplanish (bog'lanish)	$2n$	$2n-2$	$2n$	$2n+2$	$2n-1$
Qutbli bog' va qutbsiz bog' yig'indisi	$3n-1$	$3n-3$	$3n-2$	$3n$	$3n-1$
Qutbli bog' va qutbsiz bog' ayirmasi	$n+1$	$n-1$	$n+2$	$n+4$	$n+1$
sp^3 - sp^3 -qoplanish soni (bog'lanishlar soni)	$n-2$	$n-3$	$n-2$	n	$2n-3$
sp^3 -gibrild orbital(bog'lanishdagi)	$4n-2$	$4n-4$	$4n-2$	$4n+2$	$6n-6$
Gibrild orbitallar(bog'lanishdagi)	$4n+2$	$4n+4$	$4n+2$	$4n+2$	$8n-8$

*Dezoksiribozum umumiy formulaga bo'y sunmaydi $CH_2(OH)CH(OH)CH(OH)CH_2CHO$

*Chumoli kislota sp^3 -s qoplanish va sp^3 - sp^3 qoplanish umumiy formulaga bo'y sunmaydi

*Chumoli kislota efirlari sp^3 -s qoplanish: **2n-1** formula; sp^3 - sp^3 qoplanish: **n-1** formula

*Oksolat kislota sp^3 - sp^3 qoplanish umumiy formulaga bo'y sunmaydi

Hisoblash	Alkenol	Alkinol	Siklo alkonol	Ikki atomli fenol	Uch atomli fenol
Umumiy formulasi	$C_nH_{2n-1}OH$ $C_nH_{2n}O$	$C_nH_{2n-3}OH$ $C_nH_{2n-2}O$	$C_nH_{2n-1}OH$ $C_nH_{2n}O$	$C_nH_{2n-8}(OH)_2$ $C_nH_{2n-6}O_2$	$C_nH_{2n-9}(OH)_3$ $C_nH_{2n-6}O_3$
Molekular massasi	$14n+16$	$14n+14$	$14n+16$	$14n+26$	$14n+42$
Uglerod atomlari soni	n	n	n	n	n
Vodorod atomlari soni	$2n$	$2n-2$	$2n$	$2n-6$	$2n-6$
n-(uglerod) eng kichik qiymati	3	3	3	6	6
Uglerod-uglerod bog'lari(C-C)	n	$n+1$	n	$n+3$	$n+3$
Uglerod-vodorod bog'lari(C-H)	$2n-1$	$2n-3$	$2n-1$	$2n-8$	$2n-9$
Qutbsiz bog'lar (polyarmas bog'lar)	n	$n+1$	n	$n+3$	$n+3$
Qutbli bog'lar (polyar bog'lar)	$2n+1$	$2n-1$	$2n+1$	$2n-4$	$2n-3$
sp^3 -gibrid orbital(molekuladagi)	$4n-4$	$4n-4$	$4n+4$	$4n-16$	$4n-12$
Gibrid orbitallar(molekuladagi)	$4n+2$	$4n$	$4n+4$	$4n+2$	$4n+6$
Gibridlanmagan orbitallar	$2n+2$	$2n+2$	$2n$	$2n$	$2n$
Atomlar soni	$3n+1$	$3n-1$	$3n+1$	$3n-4$	$3n-3$
Uglerod atomi oksidlanish darajasi yig'indisi	$-(2n-2)$	$-(2n-4)$	$-(2n-2)$	$-(2n-10)$	$-(2n-12)$
Jami bog'lar soni	$3n+1$	$3n$	$3n+1$	$3n-1$	$3n$
Jami o-bog'lar soni	$3n$	$3n-2$	$3n$	$3n-4$	$3n-3$
Bog' hosil qilishdagi orbitallar soni	$6n+2$	$6n$	$6n+2$	$6n-2$	$6n$
Bog'lanishdagi orbitallar soni	$6n+2$	$6n$	$6n+2$	$6n-2$	$6n$
σ -bog' hosil qilishdagi orbitallar soni	$6n$	$6n-4$	$6n$	$6n-8$	$6n-6$
1 moli yonganda CO_2 koef.	n	n	n	n	n
1 moli yonganda H_2O koef.	n	$n-1$	n	$n-3$	$n-3$
1 moli yonganda O_2 koef	$1,5n-0,5$	$1,5n-1$	$1,5n-0,5$	$1,5n-2,5$	$1,5n-3$
1 moli yonganda CO_2 massasi	$44n$	$44n$	$44n$	$44n$	$44n$
1 moli yonganda H_2O massasi	$18n$	$18n-18$	$18n$	$18n-54$	$18n-54$
Jami protonlar soni	$8n+8$	$8n+6$	$8n+8$	$8n+10$	$8n+18$
Jami elektronlar soni	$8n+8$	$8n+6$	$8n+8$	$8n+10$	$8n+18$
Jami neytronlar soni(^{12}C)	$6n+8$	$6n+8$	$6n+8$	$6n+16$	$6n+24$
Jami zarrachalar soni (proton+elektron+neytron)	$22n+24$	$22n+20$	$22n+24$	$22n+36$	$22n+60$
Jami neytronlar soni (^{13}C)	$7n+8$	$7n+8$	$7n+8$	$7n+16$	$7n+24$
Jami neytronlar soni (^{14}C)	$8n+8$	$8n+8$	$8n+8$	$8n+16$	$8n+24$
sp^3 -s qoplanish(bog'lanish)	$2n-3$	$2n-3$	$2n$	$3n-16$	$3n-15$
sp^3 - sp^3 -qoplanish soni (bog'lanishlar soni)	$n-2$	$n-2$	$n+1$	$n-7$	$n-7$
Umumiy yonish tenglamasida chap tomon koef. yig'indisi	$1,5n+0,5$	$1,5n$	$1,5n+0,5$	$1,5n-1,5$	$1,5n-2$
Umumiy yonish tenglamasida o'ng tomon koef. yig'indisi	$2n$	$2n-1$	$2n$	$2n-3$	$2n-3$
Umumiy yonish tenglamasida o'ng va chap tomon koef. ayirmasi	$0,5n-0,5$	$0,5n-1$	$0,5n-0,5$	$0,5n-1,5$	$0,5n-1$
Umumiy yonish tenglamasida o'ng va chap tomon koef. yig'indisi	$3,5n+0,5$	$3,5n-1$	$3,5n+0,5$	$3,5n-4,5$	$3,5n-5$
(C-H) + (C-C) bog'lari yig'indisi	$3n-1$	$3n-2$	$3n-1$	$3n-5$	$3n-6$
(C-H) - (C-C) bog'lari ayirmasi	$n-1$	$n-4$	$n-1$	$n-11$	$n-12$
Qutbli bog' va qutbsiz bog' yig'indisi	$3n+1$	$3n$	$3n+1$	$3n-1$	$3n$
Qutbli bog' va qutbsiz bog' ayirmasi	$n+1$	$n-2$	$n+1$	$n-7$	$n-6$
Gibrid orbitallar(bog'lanishdagi)	$4n$	$4n-2$	$4n+2$	$4n-2$	$4n$

***Ikki atomli fenolda** sp^3 - sp^3 qoplanish (bog'lanish) yo'q umumiy formulaga bo'y sunmaydi

***Uch atomli fenolda** sp^3 - sp^3 qoplanish (bog'lanish) yo'q umumiy formulaga bo'y sunmaydi

Hisoblash	Alkan dial	Diketon	Alken mono karbon	Alkin mono karbon	To'y.magan murakkab efir
Umumiy formulasi	$C_nH_{2n-2}O_2$ $(CH_2)_n(CHO)_2$	$C_nH_{2n-2}O_2$ $(CH_2)_n(CO)_2$	$C_nH_{2n-2}O_2$ $C_nH_{2n-1}COOH$	$C_nH_{2n-4}O_2$ $C_nH_{2n-3}COOH$	$C_nH_{2n-2}O_2$ $RCOOC_nH_{2n-1}$
Molekular massasi	$14n+30$	$14n+30$	$14n+30$	$14n+28$	$14n+30$
Uglerod atomlari soni	n	n	n	n	n
Vodorod atomlari soni	$2n-2$	$2n-2$	$2n-2$	$2n-4$	$2n-2$
n-(uglerod) eng kichik qiymati	2	4	3	3	3
Uglerod-uglerod bog'lari(C-C)	n-1	n-1	n	n+1	n-1
Uglerod-vodorod bog'lari(C-H)	$2n-2$	$2n-2$	$2n-3$	$2n-5$	$2n-2$
Qutbsiz bog'lar (polyarmas bog'lar)	n-1	n-1	n	n+1	n-1
Qutbli bog'lar (polyar bog'lar)	$2n+2$	$2n+2$	$2n+1$	$2n-1$	$2n+2$
sp ³ -gibrid orbital(molekulada)	$4n-8$	$4n-8$	$4n-8$	$4n-8$	$4n-8$
Gibrid orbitallar(molekuladagi)	$4n+4$	$4n+4$	$4n+4$	$4n+2$	$4n+2$
Gibridlanmagan orbitallar	$2n+2$	$2n+2$	$2n+2$	$2n+2$	$2n+2$
Atomlar soni	3n	3n	3n	3n-2	3n
Uglerod atomi oksidlanish darajasi yig'indisi	$-(2n-6)$	$-(2n-6)$	$-(2n-6)$	$-(2n-6)$	$-(2n-6)$
Jami bog'lar soni	$3n+1$	$3n+1$	$3n+1$	3n	$3n+1$
Jami σ -bog'lar soni	$3n-1$	$3n-1$	$3n-1$	$3n-3$	$3n-1$
Bog' hosil qilishdagi orbitallar soni	$6n+2$	$6n+2$	$6n+2$	6n	$6n+2$
Bog'lanishdagi orbitallar soni	$6n+2$	$6n+2$	$6n+2$	6n	$6n+2$
σ -bog' hosil qilishdagi orbital lar soni	$6n-2$	$6n-2$	$6n-2$	$6n-6$	$6n-2$
1 moli yonganda CO ₂ koef.	n	n	n	n	n
1 moli yonganda H ₂ O koef.	n-1	n-1	n-1	n-2	n-1
1 moli yonganda O ₂ koef	$1,5n-1,5$	$1,5n-1,5$	$1,5n-1,5$	$1,5n-2$	$1,5n-1,5$
1 moli yonganda CO ₂ massasi	$44n$	$44n$	$44n$	$44n$	$44n$
1 moli yonganda H ₂ O massasi	$18n-18$	$18n-18$	$18n-18$	$18n-36$	$18n-18$
Jami protonlar soni	$8n+14$	$8n+14$	$8n+14$	$8n+12$	$8n+14$
Jami elektronlar soni	$8n+14$	$8n+14$	$8n+14$	$8n+12$	$8n+14$
Jami neytronlar soni(¹² C)	$6n+16$	$6n+16$	$6n+16$	$6n+16$	$6n+16$
Jami zarrachalar soni (proton+elektron+neytron)	$22n+44$	$22n+44$	$22n+44$	$22n+40$	$22n+44$
Jami neytronlar soni (¹³ C)	$7n+16$	$7n+16$	$7n+16$	$7n+16$	$7n+16$
Jami neytronlar soni (¹⁴ C)	$8n+16$	$8n+16$	$8n+16$	$8n+16$	$8n+16$
sp ³ -s qoplanish(bog'lanish)	$2n-4$	$2n-4$	$2n-5$	$2n-5$	$2n-5$
Umumiy yonish tenglamasida chap tomon koef. yig'indisi	$1,5n-0,5$	$1,5n-0,5$	$1,5n-0,5$	$1,5n-1$	$1,5n-0,5$
Umumiy yonish tenglamasida o'ng tomon koef. yig'indisi	$2n-1$	$2n-1$	$2n-1$	$2n-2$	$2n-1$
Umumiy yonish tenglamasida o'ng va chap tomon koef. ayirmasi	$0,5n-0,5$	$0,5n-0,5$	$0,5n-0,5$	$0,5n-1$	$0,5n-0,5$
Umumiy yonish tenglamasida o'ng va chap tomon koef. yig'indisi	$3,5n-1,5$	$3,5n-1,5$	$3,5n-1,5$	$3,5n-3$	$3,5n-1,5$
(C-H) + (C-C) bog'lari yig'indisi	$3n-3$	$3n-3$	$3n-3$	$3n-4$	$3n-3$
(C-H) - (C-C) bog'lari ayirmasi	n-1	n-1	n-3	n-4	n-1
Qutbli bog' va qutbsiz bog' yig'indisi	$3n+1$	$3n+1$	$3n+1$	3n	$3n+1$
Qutbli bog' va qutbsiz bog' ayirmasi	$n+3$	$n+3$	$n+1$	$n-2$	$n+3$
Gibrid orbitallar(bog'lashdagi)	4n	4n	4n	$4n-2$	4n

*Vinilasetat sp³-s qoplanish umumiy formulaga bo'ysunmaydi