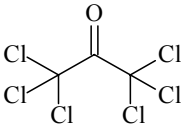


Structure Data of Free Polyatomic Molecules


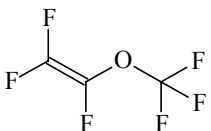
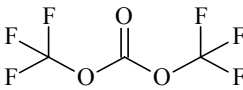
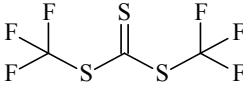
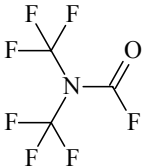
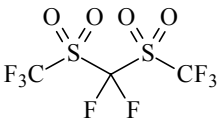
Subvolume C: Molecules containing Three or Four Carbon Atoms

Molecules containing Three Carbon Atoms

Element System C -Cl-...

No	Hill Formula	Structure Formula	Name
333	C ₃ Cl ₆ O		1,1,1,3,3,3-Hexachloro-2-propanone

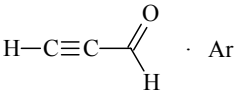
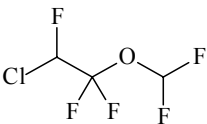
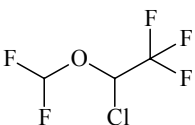
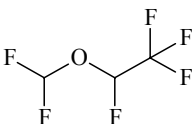
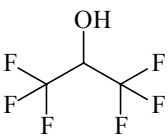
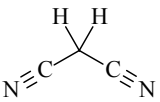
Element System C - F-...

No	Hill Formula	Structure Formula	Name
334	C ₃ F ₂ N ₂ O ₂		Difluorodiisocyanatomethane
335	C ₃ F ₆ O		Trifluoro(trifluoromethoxy)ethene
336	C ₃ F ₆ O ₃		Carbonic acid bis(trifluoromethyl) ester
337	C ₃ F ₆ S ₃		Carbonotrithioic acid
338	C ₃ F ₇ NO		Bis(trifluoromethyl)carbamoyl fluoride
339	C ₃ F ₈ O ₄ S ₂		Difluorobis[(trifluoromethyl)sulfonyl]methane

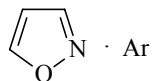

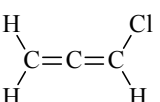
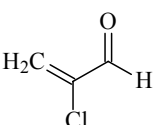
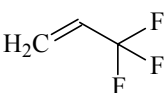
Element System C - H-... with One Hydrogen Atom

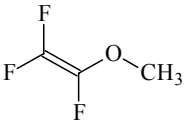
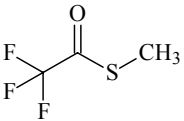
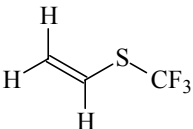
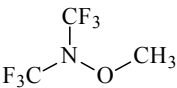
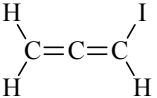
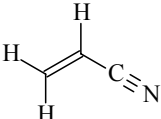


No	Hill Formula	Structure Formula	Name
340	C ₃ H	CC≡CH	2-Propynylidyne
341	C ₃ HNO ₃ S	HC≡C-C≡N · SO ₃	Cyanoacetylene – sulfur trioxide (1/1)
342	C ₃ HP	HC≡C-C≡P	1-Phospha-1,3-butadiyne

Element System C - H... with Two Hydrogen Atoms

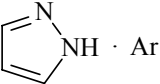
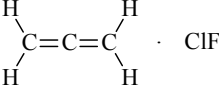
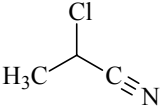
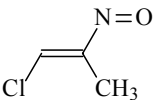
No	Hill Formula	Structure Formula	Name
343	C ₃ H ₂ ArO		2-Propynal – argon (1/1)
344	C ₃ H ₂ ClF ₅ O		2-Chloro-1-(difluoromethoxy)-1,1,2-trifluoroethane
345	C ₃ H ₂ ClF ₅ O		2-Chloro-2-(difluoromethoxy)-1,1,1-trifluoroethane
346	C ₃ H ₂ F ₆ O		2-(Difluoromethoxy)-1,1,1,2-tetrafluoroethane
347	C ₃ H ₂ F ₆ O		1,1,1,3,3,3-Hexafluoro-2-propanol
348	C ₃ H ₂ N ₂		Propanedinitrile

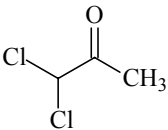
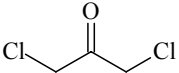
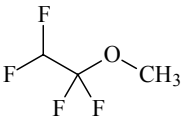
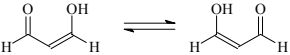
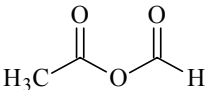
Element System C - H... with Three Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
349	C ₃ H ₂ OS	HC≡CH · OCS	Ethyne – carbonyl sulfide (1/1)
350	C ₃ H ₃ ArNO		Isoxazole – argon (1/1)
351	C ₃ H ₃ AsS		1,2-Thiarsole
352	C ₃ H ₃ Cl		1-Chloro-1,2-propadiene
353	C ₃ H ₃ ClO		α-Chloroacrylaldehyde
354	C ₃ H ₃ F ₃		3,3,3-Trifluoro-1-propene

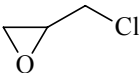
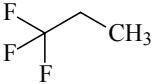
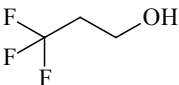
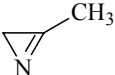
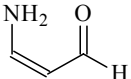
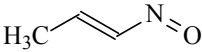
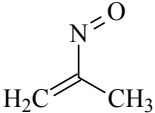
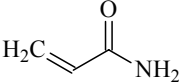
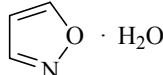
No	Hill Formula	Structure Formula	Name
355	C ₃ H ₃ F ₃ O		Trifluoro(methoxy)ethene
356	C ₃ H ₃ F ₃ OS		Trifluoroethanethioic acid S-methyl ester
357	C ₃ H ₃ F ₃ S		[(Trifluoromethyl)thio]ethene
358	C ₃ H ₃ F ₅	F ₃ C-CF ₂ -CH ₃	1,1,1,2,2-Pentafluoropropane
359	C ₃ H ₃ F ₆ NO		1,1,1-Trifluoro-N-methoxy-N-(trifluoromethyl)-methanamine
360	C ₃ H ₃ I		1-Iodo-1,2-propadiene
361	C ₃ H ₃ N		2-Propenenitrile
362	C ₃ H ₃ NO	HC≡C-CN · H ₂ O	Cyanoacetylene – water (1/1)
363	C ₃ H ₃ NS		1,3-Thiazole
364	C ₃ H ₃ N ₃		1,3,5-Triazine

Element System C - H-... with 4 Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
365	C ₃ H ₄ ArN ₂		1H-Pyrazole – argon (1/1)
366	C ₃ H ₄ ClF		Allene – chlorine fluoride (1/1)
367	C ₃ H ₄ ClN		2-Chloropropionitrile
368	C ₃ H ₄ ClNO		(1E)-1-Chloro-2-nitroso-1-propene

No	Hill Formula	Structure Formula	Name
369	C ₃ H ₄ Cl ₂ O		1,1-Dichloro-2-propanone
370	C ₃ H ₄ Cl ₂ O		1,3-Dichloro-2-propanone
371	C ₃ H ₄ F ₄ O		1,1,2,2-Tetrafluoroethyl methyl ether
372	C ₃ H ₄ N ₂	NC-C≡CH · NH ₃	Cyanoacetylene – ammonia (1/1)
373	C ₃ H ₄ OS	H ₂ C=CH ₂ · OCS	Ethene – carbonyl sulfide (1/1)
374	C ₃ H ₄ O ₂		(Z)-3-Hydroxy-2-propenal
375	C ₃ H ₄ O ₃		Acetic formic anhydride

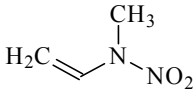
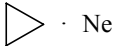
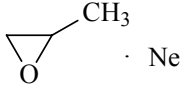
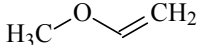
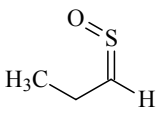
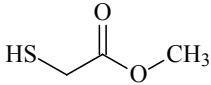
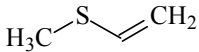
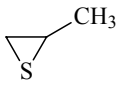
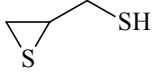

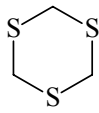
Element System C - H-... with 5 Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
376	C ₃ H ₅ ClO		2-(Chloromethyl)oxirane
377	C ₃ H ₅ F ₃		1,1,1-Trifluoropropane
378	C ₃ H ₅ F ₃ O		3,3,3-Trifluoro-1-propanol
379	C ₃ H ₅ N		3-Methyl-2H-azirine
380	C ₃ H ₅ NO		(Z)-3-Amino-2-propenal
381	C ₃ H ₅ NO		(E)-1-Nitroso-1-propene
382	C ₃ H ₅ NO		2-Nitroso-1-propene
383	C ₃ H ₅ NO		Acrylamide
384	C ₃ H ₅ NO ₂		Isoxazole – water (1/1)

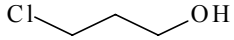
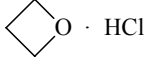
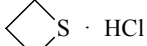
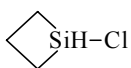
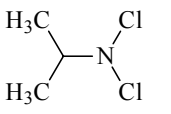
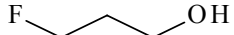
No	Hill Formula	Structure Formula	Name
385	C ₃ H ₅ O ₂ Re		Acetylene(methyldioxo)rhenium
386	C ₃ H ₅ P		2-Propynylphosphine

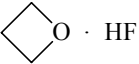
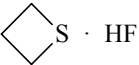
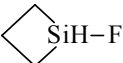
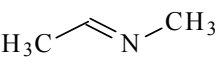
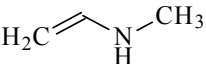
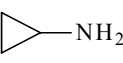
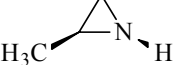


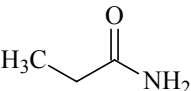
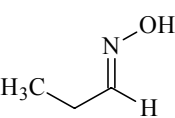
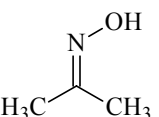
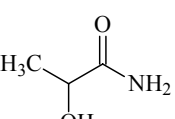
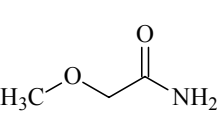
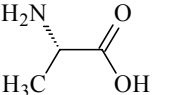
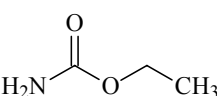
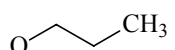
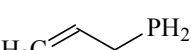
Element System C - H... with 6 Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
387	C ₃ H ₆ Ar		Cyclopropane – argon (1/1)
388	C ₃ H ₆ ArO		Acetone – argon (1/1)
389	C ₃ H ₆ ArO		Methyloxirane – argon (1/1)
390	C ₃ H ₆ ArO		Oxetane – argon (1/1)
391	C ₃ H ₆ ArO ₂		1,3-Dioxolane – argon (1/1)
392	C ₃ H ₆ ClF		Cyclopropane – chlorine fluoride (1/1)
393	C ₃ H ₆ ClNO		(E)-1-Chloro-2-propanone oxime
394	C ₃ H ₆ ClNS		Dimethylcarbamothioyl chloride
395	C ₃ H ₆ Cl ₂ Si		Dichloro(ethenyl)methylsilane
396	C ₃ H ₆ Cl ₂ Si		1,1-Dichloro-1-silacyclobutane
397	C ₃ H ₆ F ₂		1,2-Difluoropropane
398	C ₃ H ₆ F ₂		1,3-Difluoropropane
399	C ₃ H ₆ F ₂ Si		Ethenyldifluoro(methyl)silane
400	C ₃ H ₆ Kr		Cyclopropane – krypton (1/1)

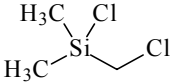
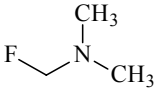
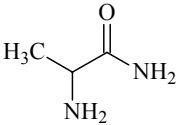
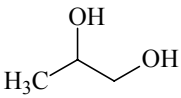
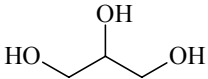
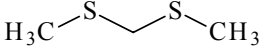
No	Hill Formula	Structure Formula	Name
401	C ₃ H ₆ N ₂ O ₂		N-Methyl-N-nitroethenamine
402	C ₃ H ₆ Ne		Cyclopropane – neon (1/1)
403	C ₃ H ₆ NeO		Methyloxirane – neon (1/1)
404	C ₃ H ₆ O		Methyl vinyl ether
405	C ₃ H ₆ OS		(Z)-Propanethial S-oxide
406	C ₃ H ₆ O ₂ S		Methyl mercaptoacetate
407	C ₃ H ₆ S		Methyl vinyl sulfide
408	C ₃ H ₆ S		Methylthiirane
409	C ₃ H ₆ S ₂		Thiiranemethanethiol
410	C ₃ H ₆ S ₂		1,3-Dithiolane
411	C ₃ H ₆ S ₃		1,3,5-Trithiane
412	C ₃ H ₆ Si	H ₃ C—C≡C—SiH ₃	1-Propynylsilane

Element System C - H-... with 7 Hydrogen Atoms

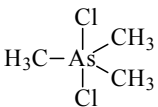
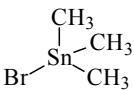
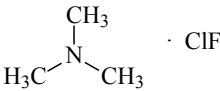
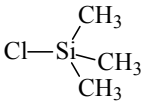
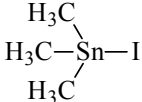
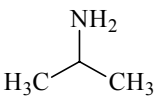
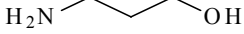
No	Hill Formula	Structure Formula	Name
413	C ₃ H ₇ ClO		3-Chloro-1-propanol
414	C ₃ H ₇ ClO		Oxetane – hydrogen chloride (1/1)
415	C ₃ H ₇ ClS		Thietane – hydrogen chloride (1/1)
416	C ₃ H ₇ ClSi		1-Chlorosilacyclobutane
417	C ₃ H ₇ Cl ₂ N		N,N-Dichloro-2-propanamine
418	C ₃ H ₇ FO		3-Fluoro-1-propanol

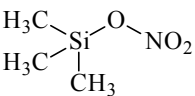
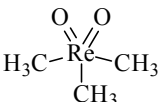
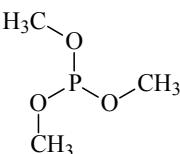
No	Hill Formula	Structure Formula	Name
419	C ₃ H ₇ FO		Oxetane – hydrogen fluoride (1/1)
420	C ₃ H ₇ FS		Thietane – hydrogen fluoride (1/1)
421	C ₃ H ₇ FSi		1-Fluorosilacyclobutane
422	C ₃ H ₇ N		(E)-N-Ethylidenemethanamine
423	C ₃ H ₇ N		N-Methylethenamine
424	C ₃ H ₇ N		Cyclopropanamine
425	C ₃ H ₇ N		Cis-2-Methylaziridine
426	C ₃ H ₇ N		Trans-2-Methylaziridine
427	C ₃ H ₇ N		Azetidine
428	C ₃ H ₇ N	CH ₃ C≡CH · NH ₃	Propyne – ammonia (1/1)
429	C ₃ H ₇ NO		Propionamide
430	C ₃ H ₇ NO		(E)-Propionaldehyde oxime
431	C ₃ H ₇ NO		Propanone oxime
432	C ₃ H ₇ NO ₂		Lactamide
433	C ₃ H ₇ NO ₂		2-Methoxyacetamide
434	C ₃ H ₇ NO ₂		L-Alanine
435	C ₃ H ₇ NO ₂		Ethyl carbamate
436	C ₃ H ₇ O		1-Propoxy
437	C ₃ H ₇ P		2-Propenylphosphine

Element System C - H... with 8 Hydrogen Atoms

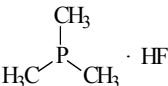
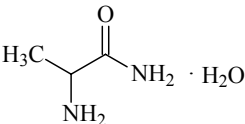
No	Hill Formula	Structure Formula	Name
438	C ₃ H ₈ Cl ₂ Si		Chloro(chloromethyl)dimethylsilane
439	C ₃ H ₈ FN		1-Fluoro-N,N-dimethylmethanamine
440	C ₃ H ₈ N ₂ O		Alaninamide
441	C ₃ H ₈ O ₂		Propan-1,2-diol
442	C ₃ H ₈ O ₃		Glycerol
443	C ₃ H ₈ S ₂		Bis(methylthio)methane

Element System C - H... with 9 Hydrogen Atoms

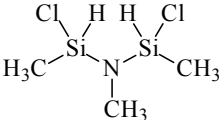
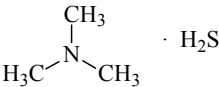
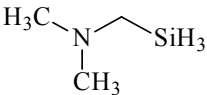
No	Hill Formula	Structure Formula	Name
444	C ₃ H ₉ AsCl ₂		Dichlorotrimethylarsorane
445	C ₃ H ₉ BrSn		Bromotrimethylstannane
446	C ₃ H ₉ ClFN		Trimethylamine – chlorine fluoride (1/1)
447	C ₃ H ₉ ClSi		Chlorotrimethylsilane
448	C ₃ H ₉ Cl ₂ Ta	Cl ₂ Ta(CH ₃) ₃	Dichlorotrimethyltantalum(V)
449	C ₃ H ₉ ISn		Iodotrimethylstannane
450	C ₃ H ₉ N		2-Propanamine
451	C ₃ H ₉ NO		3-Amino-1-propanol
452	C ₃ H ₉ NO ₃ S	(CH ₃) ₃ N · SO ₃	N,N-Dimethylmethanamine – sulfur trioxide (1/1)

No	Hill Formula	Structure Formula	Name
453	C ₃ H ₉ NO ₃ Si		Trimethylsilanol nitrate
454	C ₃ H ₉ O ₂ Re		Trimethyldioxorhenium
455	C ₃ H ₉ O ₃ P		Trimethyl phosphite

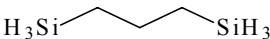
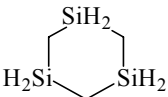
Element System C - H-... with 10 Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
456	C ₃ H ₁₀ FP		Trimethylphosphine – hydrogen fluoride (1/1)
457	C ₃ H ₁₀ N ₂ O ₂		Alaninamide – water (1/1)

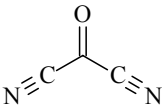
Element System C - H-... with 11 Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
458	C ₃ H ₁₁ Cl ₂ NSi ₂		Bis[chloro(methyl)silyl]methanamine
459	C ₃ H ₁₁ NS		Trimethylamine – hydrogen sulfide (1/1)
460	C ₃ H ₁₁ NSi		N,N-Dimethyl-1-silylmethanamine

Element System C - H-... with 12 Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
461	C ₃ H ₁₂ AlN	Al(CH ₃) ₃ · NH ₃	Trimethylaluminum – ammonia (1/1)
462	C ₃ H ₁₂ GaN	(CH ₃) ₃ N · GaH ₃	Trimethylamine – gallium trihydride (1/1)
463	C ₃ H ₁₂ Si ₂		1,3-Propanediylbissilane
464	C ₃ H ₁₂ Si ₃		1,3,5-Trisilacyclohexane



Element System C - N-...

No	Hill Formula	Structure Formula	Name
465	C ₃ N ₂ O		Carbonyl cyanide

Element System C - O-...

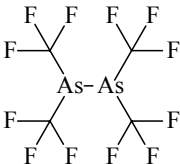
No	Hill Formula	Structure Formula	Name
466	C ₃ O ₃ S ₃	3(OCS)	Carbonyl sulfide trimer
467	C ₃ O ₄ S ₂	CO ₂ · 2(OCS)	Carbon dioxide – carbonyl sulfide (1/2)
468	C ₃ O ₅ S	OCS · 2(CO ₂)	Carbonyl sulfide – carbon dioxide (1/2)
469	C ₃ O ₆	3(CO ₂)	Carbon dioxide trimer

Element System C -Si-...

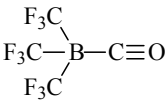
No	Hill Formula	Structure Formula	Name
470	C ₃ Si	 	Silicon tricarbidide

Molecules containing Four Carbon Atoms

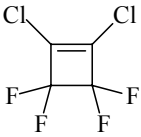
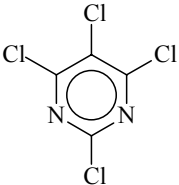
Element System C -As-...

No	Hill Formula	Structure Formula	Name
471	C ₄ As ₂ F ₁₂		Tetrakis(trifluoromethyl)diarsine

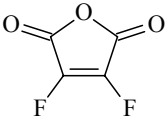
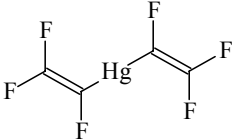
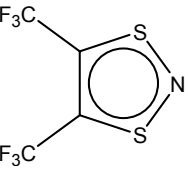
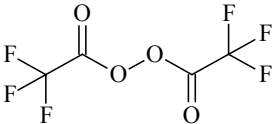
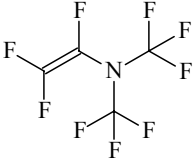
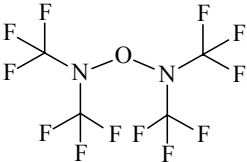
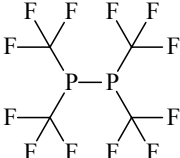
Element System C - B-...

No	Hill Formula	Structure Formula	Name
472	C ₄ BF ₉ O		Carbonyltris(trifluoromethyl)boron

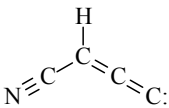
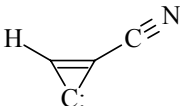
Element System C -Cl-...

No	Hill Formula	Structure Formula	Name
473	C ₄ Cl ₂ F ₄		1,2-Dichloro-3,3,4,4-tetrafluorocyclobutene
474	C ₄ Cl ₄ N ₂		2,4,5,6-Tetrachloropyrimidine

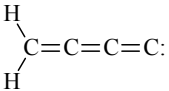
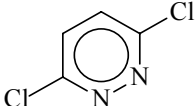
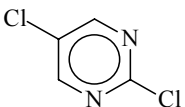
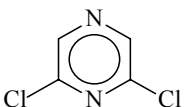
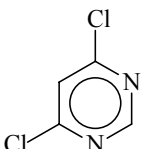
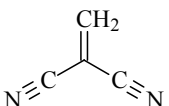
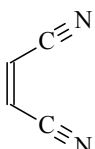
Element System C - F-...

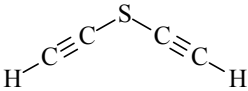
No	Hill Formula	Structure Formula	Name
475	C ₄ F ₂ O ₃		3,4-Difluoro-2,5-furandione
476	C ₄ F ₆ Hg		Bis(trifluoroethenyl)mercury
477	C ₄ F ₆ NS ₂		4,5-Bis(trifluoromethyl)-1,3,2-dithiazolyl
478	C ₄ F ₆ O ₄		Bis(trifluoroacetyl) peroxide
479	C ₄ F ₉ N		1,2,2-Trifluoro-N,N-bis(trifluoromethyl)-ethenamine
480	C ₄ F ₁₂ N ₂ O		N,N'-Oxybis[1,1,1-trifluoro-N-(trifluoromethyl)ethanamine]
481	C ₄ F ₁₂ P ₂		Tetrakis(trifluoromethyl)diphosphine

Element System C - H... with One Hydrogen Atom

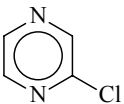
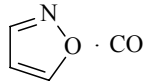
No	Hill Formula	Structure Formula	Name
482	C ₄ HCoO ₄	HCo(CO) ₄	Tetracarbonylhydridocobalt
483	C ₄ HF	HC≡C–C≡CF	Fluorodiacetylene
484	C ₄ HN		3-Cyano-1,2-propadienylidene
485	C ₄ HN		2-Cyano-2-cyclopropen-1-ylidene

Element System C - H... with Two Hydrogen Atoms

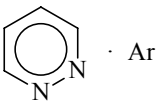

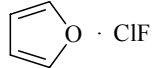
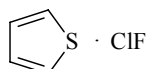
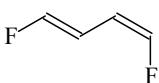
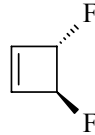
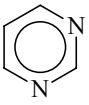
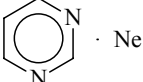
No	Hill Formula	Structure Formula	Name
486	C ₄ H ₂	H–C≡C–C≡C–H	1,3-Butadiyne
487	C ₄ H ₂		1,2,3-Butatrienylidene
488	C ₄ H ₂ ⁺	H–C≡C–C≡C–D ⁺	Butadiyne-d ₁ cation
489	C ₄ H ₂ Ar	Ar · HC≡C–C≡CH	1,3-Butadiyne – argon (1/1)
490	C ₄ H ₂ Cl ₂ N ₂		3,6-Dichloropyridazine
491	C ₄ H ₂ Cl ₂ N ₂		2,5-Dichloropyrimidine
492	C ₄ H ₂ Cl ₂ N ₂		2,6-Dichloropyrazine
493	C ₄ H ₂ Cl ₂ N ₂		4,6-Dichloropyrimidine
494	C ₄ H ₂ FeO ₄	H ₂ Fe(CO) ₄	Tetracarbonyldihydroiron
495	C ₄ H ₂ N ₂		1,1-Dicyanoethene
496	C ₄ H ₂ N ₂		(2Z)-2-Butenedinitrile
497	C ₄ H ₂ O ₂ S ₂	HC≡CH · 2(OCS)	Acetylene – carbonyl sulfide (1/2)

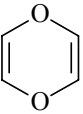
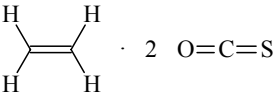




No	Hill Formula	Structure Formula	Name
498	C ₄ H ₂ O ₄ Os	H ₂ Os(CO) ₄	Tetracarbonyldihydroosmium
499	C ₄ H ₂ O ₄ Ru	H ₂ Ru(CO) ₄	Tetracarbonyldihydorruthenium
500	C ₄ H ₂ S		Ethynyl sulfide

Element System C - H-... with 3 Hydrogen Atoms

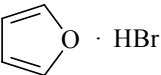
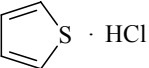
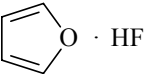
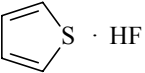
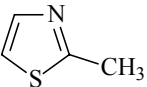
No	Hill Formula	Structure Formula	Name
501	C ₄ H ₃ ClN ₂		Chloropyrazine
502	C ₄ H ₃ N	H ₃ C—C≡C—N≡C	1-Propynyl isocyanide
503	C ₄ H ₃ NO ₂		Isoxazole – carbon monoxide (1/1)

Element System C - H-... with 4 Hydrogen Atoms

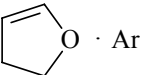
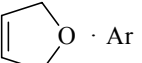
No	Hill Formula	Structure Formula	Name
504	C ₄ H ₄ ArN ₂		Pyridazine – argon (1/1)
505	C ₄ H ₄ ArN ₂		Pyrimidine – argon (1/1)
506	C ₄ H ₄ ClFO		Furan – chlorine fluoride (1/1)
507	C ₄ H ₄ ClFS		Thiophene – chlorine fluoride (1/1)
508	C ₄ H ₄ F ₂		(E,Z)-1,4-Difluoro-1,3-butadiene
509	C ₄ H ₄ F ₂		Trans-3,4-Difluorocyclobutene
510	C ₄ H ₄ N ₂		Pyrimidine
511	C ₄ H ₄ N ₂ Ne		Pyrimidine – neon (1/1)

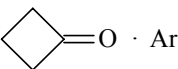
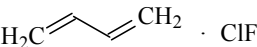
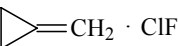
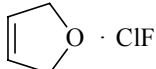
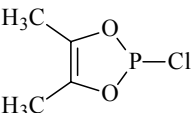

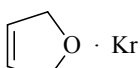
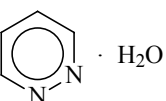
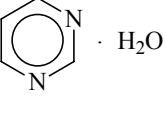
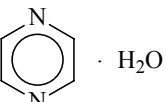
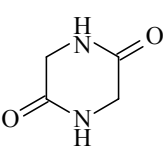
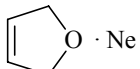
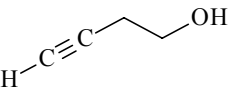
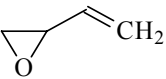

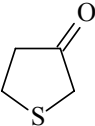
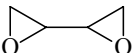
No	Hill Formula	Structure Formula	Name
512	C ₄ H ₄ O ₂		1,4-Dioxin
513	C ₄ H ₄ O ₂ S ₂		Ethene – carbonyl sulfide (1/2)
514	C ₄ H ₄ S		Thiophene
515	C ₄ H ₄ SSe		1,2-Thiaselenin
516	C ₄ H ₄ S ₂		1,2-Dithiin
517	C ₄ H ₄ Se ₂		1,2-Diselenin

Element System C - H-... with 5 Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
518	C ₄ H ₅ BrO		Furan – hydrogen bromide (1/1)
519	C ₄ H ₅ ClS		Thiophene – hydrogen chloride (1/1)
520	C ₄ H ₅ FO		Furan – hydrogen fluoride (1/1)
521	C ₄ H ₅ FS		Thiophene – hydrogen fluoride (1/1)
522	C ₄ H ₅ NS		2-Methylthiazole

Element System C - H-... with 6 Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
523	C ₄ H ₆ ArO		2,3-Dihydrofuran – argon (1/1)
524	C ₄ H ₆ ArO		2,5-Dihydrofuran – argon (1/1)

No	Hill Formula	Structure Formula	Name
525	C ₄ H ₆ ArO		Cyclobutanone – argon (1/1)
526	C ₄ H ₆ ClF		1,3-Butadiene – chlorine fluoride (1/1)
527	C ₄ H ₆ ClF		Methylenecyclopropane – chlorine fluoride (1/1)
528	C ₄ H ₆ ClFO		2,5-Dihydrofuran – chlorine fluoride (1/1)
529	C ₄ H ₆ ClO ₂ P		2-Chloro-4,5-dimethyl-2H-1,3,2-dioxaphospholene
530	C ₄ H ₆ F ₂		1,1-Difluorocyclobutane
531	C ₄ H ₆ KrO		2,5-Dihydrofuran – krypton (1/1)
532	C ₄ H ₆ N ₂ O		Pyridazine – water (1/1)
533	C ₄ H ₆ N ₂ O		Pyrimidine – water (1/1)
534	C ₄ H ₆ N ₂ O		Pyrazine – water (1/1)
535	C ₄ H ₆ N ₂ O ₂		2,5-Dioxopiperazine
536	C ₄ H ₆ NeO		2,5-Dihydrofuran – neon (1/1)
537	C ₄ H ₆ O		3-Butyn-1-ol
538	C ₄ H ₆ O		3,4-Epoxybut-1-ene
539	C ₄ H ₆ O		2,5-Dihydrofuran
540	C ₄ H ₆ OS		Thiolan-3-one
541	C ₄ H ₆ O ₂		2,2'-Bioxirane

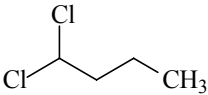
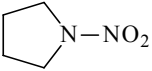
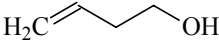
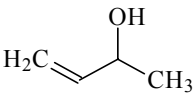
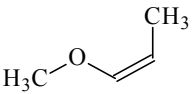
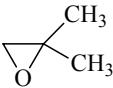

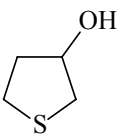
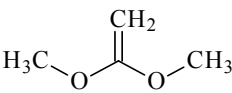
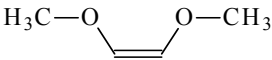
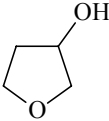
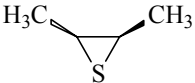


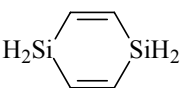
No	Hill Formula	Structure Formula	Name
542	C ₄ H ₆ O ₂ S		Ethanethioic acid anhydrosulfide
543	C ₄ H ₆ O ₃		Acetic anhydride
544	C ₄ H ₆ O ₄ Sn		Tin(II) acetate

Element System C - H-... with 7 Hydrogen Atoms

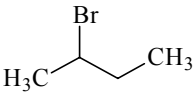
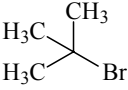
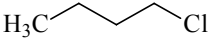
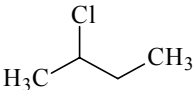
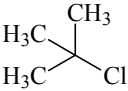
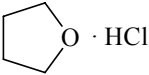
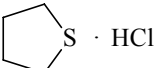
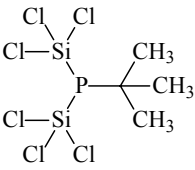
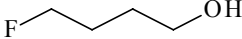
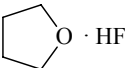
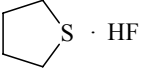
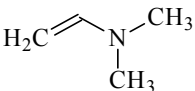
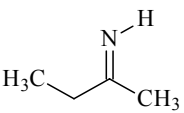
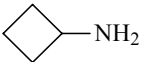

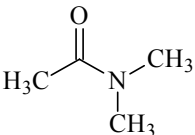
No	Hill Formula	Structure Formula	Name
545	C ₄ H ₇ ArCl		Chlorocyclobutane – argon (1/1)
546	C ₄ H ₇ Br		Methylenecyclopropane – hydrogen bromide (1/1)
547	C ₄ H ₇ BrO		2,5-Dihydrofuran – hydrogen bromide (1/1)
548	C ₄ H ₇ Cl		(Chloromethyl)cyclopropane
549	C ₄ H ₇ ClO		Cyclobutanone – hydrogen chloride (1/1)
550	C ₄ H ₇ FO		2,5-Dihydrofuran – hydrogen fluoride (1/1)
551	C ₄ H ₇ F ₃ Si		(Cyclopropylmethyl)trifluorosilane
552	C ₄ H ₇ F ₃ Si		Cyclobutyltrifluorosilane
553	C ₄ H ₇ N		Butanenitrile
554	C ₄ H ₇ N		2,5-Dihydro-1H-pyrrole

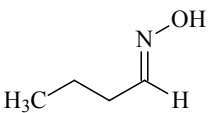
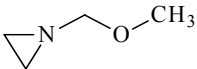
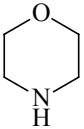
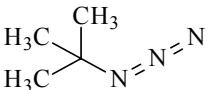
Element System C - H-... with 8 Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
555	C ₄ H ₈ ArO		Tetrahydrofuran – argon (1/1)
556	C ₄ H ₈ ArS		Tetrahydrothiophene – argon (1/1)

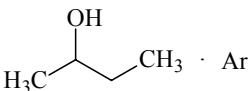
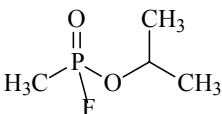
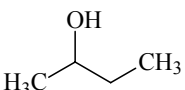
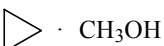
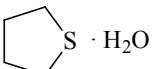
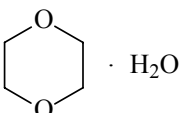
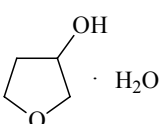
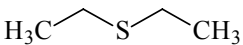
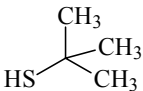
No	Hill Formula	Structure Formula	Name
557	C ₄ H ₈ Cl ₂		1,1-Dichlorobutane
558	C ₄ H ₈ N ₂ O ₂		1-Nitropyrrolidine
559	C ₄ H ₈ O		3-Buten-1-ol
560	C ₄ H ₈ O		3-Buten-2-ol
561	C ₄ H ₈ O		(Z)-1-Methoxy-1-propene
562	C ₄ H ₈ O		2,2-Dimethyloxirane
563	C ₄ H ₈ O		Tetrahydrofuran
564	C ₄ H ₈ OS		3-Hydroxytetrahydrothiophene
565	C ₄ H ₈ O ₂		1,1-Dimethoxyethene
566	C ₄ H ₈ O ₂		(Z)-1,2-Dimethoxyethene
567	C ₄ H ₈ O ₂		3-Hydroxytetrahydrofuran
568	C ₄ H ₈ S		Trans-2,3-Dimethylthiirane
569	C ₄ H ₈ S		Tetrahydrothiophene
570	C ₄ H ₈ Se		Tetrahydroselenophene
571	C ₄ H ₈ Si ₂		1,4-Disilacyclohexa-2,5-diene

Element System C - H... with 9 Hydrogen Atoms

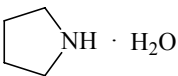
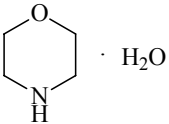
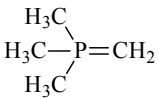
No	Hill Formula	Structure Formula	Name
572	C ₄ H ₉ Br		2-Bromobutane
573	C ₄ H ₉ Br		t-Butyl bromide
574	C ₄ H ₉ Cl		1-Chlorobutane
575	C ₄ H ₉ Cl		2-Chlorobutane
576	C ₄ H ₉ Cl		t-Butyl chloride
577	C ₄ H ₉ ClO		Tetrahydrofuran – hydrogen chloride (1/1)
578	C ₄ H ₉ ClS		Tetrahydrothiophene – hydrogen chloride (1/1)
579	C ₄ H ₉ Cl ₆ PSi ₂		(t-Butyl)bis(trichlorosilyl)phosphine
580	C ₄ H ₉ FO		4-Fluoro-1-butanol
581	C ₄ H ₉ FO		Tetrahydrofuran – hydrogen fluoride (1/1)
582	C ₄ H ₉ FS		Tetrahydrothiophene – hydrogen fluoride (1/1)
583	C ₄ H ₉ N		N,N-Dimethylethenamine
584	C ₄ H ₉ N		(2E)-2-Butanimine
585	C ₄ H ₉ N		Cyclobutylamine
586	C ₄ H ₉ N		Pyrrolidine
587	C ₄ H ₉ NO		N,N-Dimethylacetamide

No	Hill Formula	Structure Formula	Name
588	C ₄ H ₉ NO		(E)-Butyraldehyde oxime
589	C ₄ H ₉ NO		1-(Methoxymethyl)aziridine
590	C ₄ H ₉ NO		Morpholine
591	C ₄ H ₉ N ₃		2-Azido-2-methylpropane

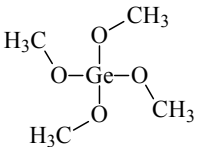
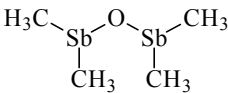
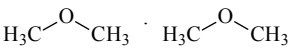
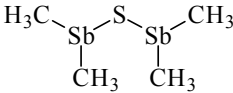
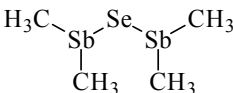
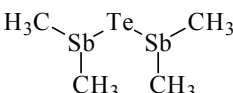
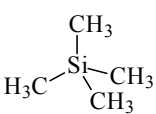
Element System C - H-... with 10 Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
592	C ₄ H ₁₀ ArO		Butan-2-ol – argon (1/1)
593	C ₄ H ₁₀ FO ₂ P		Methylphosphonofluoridic acid isopropyl ester
594	C ₄ H ₁₀ O		2-Butanol
595	C ₄ H ₁₀ O		Cyclopropane – methanol (1/1)
596	C ₄ H ₁₀ OS		Tetrahydrothiophene – water (1/1)
597	C ₄ H ₁₀ O ₃		1,4-Dioxane – water (1/1)
598	C ₄ H ₁₀ O ₃		3-Hydroxytetrahydrofuran – water (1/1)
599	C ₄ H ₁₀ S		Diethyl sulfide
600	C ₄ H ₁₀ S		2-Methyl-2-propanethiol

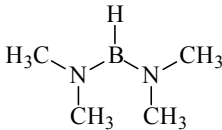
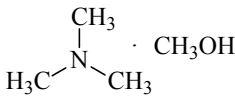
Element System C - H... with 11 Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
601	C ₄ H ₁₁ NO	 · H ₂ O	Pyrrolidine – water (1/1)
602	C ₄ H ₁₁ NO ₂	 · H ₂ O	Morpholine – water (1/1)
603	C ₄ H ₁₁ P		Methylenetrimethylphosphorane

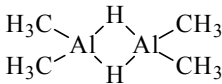
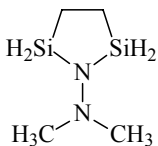
Element System C - H... with 12 Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
604	C ₄ H ₁₂ GeO ₄		Tetramethoxygermane
605	C ₄ H ₁₂ OSb ₂		Bis(dimethylstibino) oxide
606	C ₄ H ₁₂ O ₂		Dimethyl ether dimer
607	C ₄ H ₁₂ SSb ₂		Thiobis[dimethylstibine]
608	C ₄ H ₁₂ Sb ₂	(CH ₃) ₂ Sb-Sb(CH ₃) ₂	Tetramethyldistibine
609	C ₄ H ₁₂ Sb ₂ Se		Bis(dimethylstibino)selane
610	C ₄ H ₁₂ Sb ₂ Te		Tellurobis[dimethylstibine]
611	C ₄ H ₁₂ Si		Tetramethylsilane

Element System C - H... with 13 Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
612	C ₄ H ₁₃ BN ₂		N,N,N',N'-Tetramethylboranediamine
613	C ₄ H ₁₃ NO		N,N-Dimethylmethanamine – methanol (1/1)

Element System C - H... with 14 Hydrogen Atoms

No	Hill Formula	Structure Formula	Name
614	C ₄ H ₁₄ Al ₂		Di-μ-hydrotetramethyldialuminum
615	C ₄ H ₁₄ N ₂ Si ₂		N,N-Dimethyl-1-aza-2,5-disilacyclopentan-1-amine

Element System C -Si-...

No	Hill Formula	Structure Formula	Name
616	C ₄ Si	C=C=C=C=Si	5-Silapenta-1,2,3,4-tetraene-1,5-diylidene