

INDEX OF CHEMICAL SPECIES

ONE ATOM

<p>Al : 181, 411 Ar : 361 Ba : 409 C : 31,55,127,143,193, 199,249,251,281, 285,297,303,321, 329,333,335,357, 359,365,379,389, 421,459 ¹³C : 127 Ca : 181 e⁻ : 1,7,31,73,83,143, 211,329,357,379, 387,471 Fe⁺⁺ : 281 H⁺ : 1,73,329,379,387,471 H⁻ : 73,83,365,379 D : 1,73,85,91,97 He⁺ : 7,73,193,359,365,471 ⁴He : 73,85 ⁷Li : 73,85,395,471 Mg⁺ : 181 N⁺ : 7,103,143,321,361 Na : 47,181,357 Nd : 409 O : 1,103,143,193,217, 245,249,251,297, 329,335,357,361, 365,373,379,415, 451,471 S : 1,181,217,357,361, 389,415,459 Si : 31,181,281,379 Sm : 409 Sr : 409</p>	<p>Al⁺ : 181 B : 471 Be : 471 C⁺ : 1,7,117,143,153,193,211,217, 285,297,303,309,321,329,359, 365,379,389 C⁺⁺ : 281,359 C⁺⁺⁺ : 359 C⁻ : 365 ¹³C⁺ : 193,303 ⁵⁶Co : 365 e⁺ : 471 Fe : 39,181,281 Fe⁺ : 1,103 H : 1,7,31,47,55,65,73,83,85,117 143,153,159,211,217,285,309 329,357,361, 365,373 ,379, 387,389,415,471 He : 7,55,73,357,359,361,365 He⁺⁺ : 73,471 ³He : 73,85 K : 181 Mg : 39,181 N : 1,13,211,251,357,361,365, 459,471 Na⁺ : 181 Ne : 361 O⁻ : 365 ¹⁸O⁺ : 335 O⁺⁺ : 361 P : 181 Ps : 41 S⁺ : 1,373 S⁺⁺ : 361 Si⁺ : 1,181,379 Si⁺⁺ : 281 Ti : 181</p>
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Y : 409

TWO ATOMS

AlCl : 181,427

AlN : 181

AlO : 181

 $^{12}\text{C}^{13}\text{C}$: 427 $^{13}\text{CH}^+$: 127,193

CD : 155

CN⁺ : 427CO : 1,27,31,47,55,65,91,
111,117,121,143,153,
157,159,169,171,181,
193,199,217,225,237,
245,249,251,259,265,
271,285,297,303,311,
317,319,321,329,363,
365,379,387,389,399,
407,413,415,421,427,
449,451,471,477

CP : 181,389,427

C³⁴S : 225,271

FeO : 181

H₂ : 1,7,31,55,73,83,91,97,
103,111,143,153,155,
159,169,181,211,217,
237,245,251,285,309,
311,319,329,363,365,
373,379,387,415,427,
451,471

HD : 7,73,91,97,169,211

HCl : 7,55,427

HeH⁺ : 73,365

LiH : 73

MgO : 181

NaO : 181

N₂ : 1,27,285,449,451,459

NH : 143,181,363,415,427,451

AlF : 181,427

C₂ : 143,153,171,193,365,427,443,447,477CH : 127,153,171,199,285,329,
357,363,365,427,477CH⁺ : 1,127,143,153,159,193,
309,329,363,427,477CN : 1,13,55,111,121,127,143,
153,171,193,237,271,317,
319,363,365,389,401,403,
415,427,443,447,477 ^{13}CN : 193CO⁺ : 329,365,427 ^{13}CO : 143,153,159,199,217,225,
259,265,271,285,297,303,
311,319,335,347,389,401,477C¹⁸O : 159,171,193,199,217,225
251,265,271,285,297 $^{13}\text{C}^{18}\text{O}$: 193CS : 31,111,121,171,193,199,
217,225,237,251,271,311,
319,389,401,415,477

FeS : 181,415

H₂⁺ : 73,83,365,379,387,471D₂ : 7

DCl : 97

KCl : 181,427

LiH⁺ : 73

MgN : 181

NaN : 181

N₂⁺ : 427,451NH⁺ : 7

NO : 13,171,317,427

NaCl : 181,389,427

 $^{16}O^{18}O$: 191,335OH⁺ : 427,471

PN : 181,389,427

PO : 181

SH : 1,217,357,415

SO⁺ : 181,427

SiH : 39,461

SiN : 171,181,379,389,427

TiC : 181

TiN : 181

NS : 227,427

O₂ : 1,13,27,55,189,191,193,
285,329,335,365,451OH : 1,7,39,111,143,171,211,
217,237,245,285,309,317,
329,345,357,365,379,389,415,427,477

OD : 155

PS : 181

S₂ : 415,451,427,459SO : 1,111,121,171,179,181,199
237,271,319,357,389,415,
427,451,459

SiC : 39,181,365,379,427

SiO : 1,39,111,181,199,223,225,
237,251,365,371,379,389,401,427

SiS : 181,237,379,389,401,427

TiO : 181,409

THREE ATOMS

AlOH : 181

C₃⁺ : 365

CaOH : 181

C₂H : 111,121,171,193,271,
379,389,401,427C₂S : 171,389,427CO₂ : 27,65,97,285,435,449,
427,451

CCH : 389

DCN : 1,211

H₃⁺ : 1,7,91,143,169,211
259,329,365,389,
427,471HCN : 111,121,171,181,199,
211,225,231,237,251,
265,271,317,319,347,
363,379,389,401,439,
449,427,451HNC : 111,121,171,211,237,
271,317,379,389,401,427HN¹³C : 401

HCO : 31,223,357,427

HCO⁺ : 1,7,31,91,111,121,
171,211,223,225,237,C₃ : 31,139,389,443,447,427CH₂ : 193,363CH₂⁺ : 329,363C₂O : 171,181C₂D : 211CO₂⁺ : 427CS₂ : 415,449,451,459DCO⁺ : 91,155,169,211

DNC : 211

H¹³CO : 223HC¹⁸O⁺ : 223H¹³CN : 271,401

- 251,271,319,329,347,
 357,373,389,427,471
 $H^{13}CO^+$: 169,171,225,271
 HCS : 31
 HNO : 187,317,357,427
 H_2O : 1,7,27,29,65,97,157,
 181,191,193,231,237,
 249,259,275,285,317,
 329,335,345,349,389,
 413,415,421,427,435,
 437,449,451,459
 HDO : 1,97,211
 H_2D^+ : 91,155,169,211

 NH_2 : 55,317,415,427,451
 MgOH : 181
 MgNH : 181
 NH_2^+ : 471
 N_2H^+ : 171,211,237,357,111
 271,427
 OCH : 217
 OCS : 7,27,65,171,223,265
 415,427,439,451,459
 $^{33}SO_2$: 179
 Si_2C : 181,379
 SiH_2 : 181
 SiC_2 : 31,181,379,389,401
 SiC_2^+ : 339

 HCP : 181,389
 HCS^+ : 7,31,171,223,427
 HNSi : 181
 H_2O^+ : 415,427
 $H_2^{18}O$: 335

 H_2S : 1,7,171,199,237,357,389
 415,427,435,439,449,451,459

 MgC_2 : 181
 $NaCN$: 181
 $NaNH$: 181
 N_2D^+ : 155,211

 OCN : 357
 SO_2 : 1,7,171,179,199,237,319
 389,421,427,435,439,451,459
 $^{34}SO_2$: 179
 $c-SiC_2$: 427
 $SiCC$: 399
 SiO_2 : 365

FOUR ATOMS

- $AlCCH$: 181
 CH_3^+ : 7,211,363
 C_2H_2 : 55,181,259,265,317,
 389,427,449,451
 CH_3D : 97, 211
 $1-C_3H$: 427
 $c-C_3H$: 171,427
 C_3O : 171,427
 D_2CO : 1,91,181,211
 HC_2N : 181
 $HCNH^+$: 171,211,427
 $HNCD^+$: 211
 H_2CO : 29,91,111,121,143,
 171,181,193,237,285,

 CH_3 : 317
 CH_2D^+ : 155,211
 $C_2H_2^+$: 181,211,389
 C_2HD^+ : 155,211
 C_3H : 171,181,211,389,401

 C_3N : 171,401,427
 C_3S : 171,389,427
 F_3C : 181
 $HCND^+$: 211

 $HCCN$: 389
 $H_2^{13}CO$: 193
 HCO_2^+ : 223

317,319,347,415,427, 439,441,449,451,477	
HDCO : 91,211	H_2DO^+ : 155
H_2CS : 171,415,427,439,451,459	H_2NC^+ : 211
HNCS : 227,427	HNCO : 111,187,427
HOCO ⁺ : 179,427	HSiNH ⁺ : 379
H_3O^+ : 1,7,181,191,389,427	H_3S^+ : 415
NaCCH : 181	
NH ₃ : 1,7,29,47,111,143, 169,171,181,199,205, 211,217,223,231,237, 251,317,345,357,373, 379,389,415,427,449,451	NH ₃ ⁺ : 31,415
NH ₂ D : 1, 211	
SiC ₂ H ⁺ : 379	OCSH ⁺ : 7

FIVE ATOMS

Al ₂ O ₃ : 17,181	CH ₂ CH : 181
CH ₂ C ₂ : 171	CH ₂ O ₂ : 231
CH ₃ D : 97,211	CH ₄ : 27,65,97,199,231,259, 317,379,421,427,451,459
C ₂ H ₃ : 31	C ₂ H ₃ ⁺ : 31
C ₃ HD : 211	c-C ₃ H ₂ : 427
C ₃ H ₂ : 111,121,143,171,181, 211,223,271,389,401,477	C ₄ H : 171,181,211,389,401,427
C ₄ D : 211	C ₄ H ⁺ : 211
C ₄ Si : 427	C ₄ N : 31
CH ₂ CN : 1,171,427	Fe(OH) ₂ : 181
C ₅ : 139	
DC ₃ N : 211	
HCOOH : 171,223,427,451	H ₂ CHN : 427
HC ₃ N : 121,171,181,205,211, 237,271,317,363,379, 389,401,427,439,451,477	H ₂ CO ₂ : 449
H ₂ CCC : 23,389	MgSiO ₃ : 181
H ₂ CCO : 1,171,427	SiH ₄ : 181,379,427
H ₂ NCN : 427	SiCl ₄ : 389
NH ₄ ⁺ : 7,31,415	
NaCCH : 181	
SiC ₄ : 379	

SIX ATOMS

C ₂ H ₃ N : 55	C ₂ H ₄ : 55,317,427,451
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$C_3H_3^+$: 211	$C_4H_2^+$: 211
C_5H : 171,181,389,427	C_5O : 31,181,427
C_5N : 31	CH_3CN : 111,171,181,311,317, 427,449,451
CH_3NC : 427	CH_3OH : 27,29,55,65,111,171, 179,181,199,223,251, 271,285,319,341,427, 437,439,449,451
$C_3H_2D^+$: 211	
CH_3OD : 1,211	CH_3SH : 427
CH_2C_3 : 171	H_2C_4 : 181
HDC_3N^+ : 211	HC_3ND^+ : 211
HC_3NH^+ : 211	$H_2C_3N^+$: 211
H_2CCCC : 23,389	$H_3CO_2^+$: 449
$HCONH_2$: 427	NH_2CHO : 179,181
HC_2CHO : 171	

SEVEN ATOMS

C_7 : 139	C_6H : 31,171,181,389,427
C_6O : 181	C_2H_4O : 55
$C_4H_3^+$: 389	CH_3NH_2 : 427,449
C_3H_3N : 111	CH_2CHCN : 171,317,427
CH_3CCH : 171,223,271,427,451	CH_3CHO : 171,181
DC_5N : 211	Fe_2SiO_4 : 181
H_3CCCH : 237	$HCOCH_3$: 427
HC_5N : 171,223,237,317,363,427	
$H_2C_3H_2$: 449	Mg_2SiO_4 : 181

EIGHT ATOMS

C_2H_6 : 317	$C_4H_3^+$: 389
C_7H : 31	CH_3C_3N : 171,427
CH_3OHCO : 181	$HCOOCH_3$: 179,427
H_3CCH_3 : 181	S_8 : 415

NINE ATOMS

CH_3C_4H : 171,427	CH_3CH_2OH : 223
C_2H_5CN : 179,237,427	C_2H_5OH : 55,179,181,427
$(CH_3)_2O$: 55,181,237,427	DC_7N : 211
HC_7N : 171,317,363,427	H_3COCH_3 : 181
H_3CCHCH_2 : 181	

TEN ATOMS

C_6H_3N : 427

H_3CCOCH_3 : 181,427

MORE THAN TEN ATOMS

HC_9N : 171,427

$HC_{11}N$: 171,427

$HC_{13}N$: 31

$C_{10}H_6$: 31

$C_{10}H_6^+$: 31

$C_{10}H_7$: 31

$C_{10}H_7^+$: 31

$C_{10}H_8$: 25,31

$C_{10}H_8^+$: 25

$C_{14}H_{10}$: 31

$C_{14}H_{10}^+$: 31

$C_{16}H_{10}$: 31

$C_{16}H_{10}^+$: 31

C_{60} (Buckminsterfullerene) : 47