Estudi dels elements

**2 Alcalinoterris**

**1 Alcalins**

|  |  |
| --- | --- |
| **1** |   |
| **2** | 4Be |
| **3** | 12Mg |
| **4** | 20Ca |
| **5** | 38Sr |
| **6** | 56Ba |
| **7** | 88Ra |

Franci

Cesi

Rubidi

Potassi

Sodi

Liti

Hidrogen

Radi

Bari

Estronci

Calci

Magnesi

Beril·li

|  |  |
| --- | --- |
| **1** | 1H |
| **2** | 3Li |
| **3** | 11Na |
| **4** | 19K |
| **5** | 37Rb |
| **6** | 55Cs |
| **7** | 87Fr |

|  |
| --- |
| 57La |
| 58Ce |
| 59Pr |
| 60Nd |
| 61Pm |
| 62Sm |
| 63Eu |
| 64Gd |
| 65Tb |
| 66Dy |
| 67Ho |
| 68Er |
| 69Tm |
| 70Yb |
| 71Lu |

Ceri

Lantani

**3 Halogens Alcalinoterris**

Praseodimi

Luteci

Iterbi

Tuli

Erbi

Holmi

Disprosi

Terbi

Gadolini

Europi

Samari

Prometi

Neodimi

Itri

Escandi

|  |  |
| --- | --- |
| **1** |   |
| **2** |   |
| **3** |   |
| **4** | 21Sc |
| **5** | 39Y |
| **6** |  (Lantànids) |
| **7** |  (Actínids) |

|  |
| --- |
| 89Ac |
| 90Th |
| 91Pa |
| 92U |
| 93Np |
| 94Pu |
| 95Am |
| 96Cm |
| 97Bk |
| 98Cf |
| 99Es |
| 100Fm |
| 101Md |
| 102No |
| 103Lr |

Actini

|  |  |
| --- | --- |
| **1** |   |
| **2** |   |
| **3** |   |
| **4** | 22Ti |
| **5** | 40Zr |
| **6** | 72Hf |
| **7** | 104Rf |

Hafni

Zirconi

Titani

Laurenci

Nobeli

Mendelevi

Fermi

Einsteini

Californi

Berkeli

Curi

Amerci

Plutoni

Neptuni

Urani

Protoactini

Tori

**4**

Rutherfordi

|  |  |
| --- | --- |
| **1** |   |
| **2** |   |
| **3** |   |
| **4** | 23V |
| **5** | 41Nb |
| **6** | 73Ta |
| **7** | 105Db |

|  |  |
| --- | --- |
| **1** |   |
| **2** |   |
| **3** |   |
| **4** | 24Cr |
| **5** | 42Mo |
| **6** | 74W |
| **7** | 106Sg |

|  |  |
| --- | --- |
| **1** |   |
| **2** |   |
| **3** |   |
| **4** | 25Mn |
| **5** | 43Tc |
| **6** | 75Re |
| **7** | 107Bh |

**7**

**5**

**6**

Manganés

Crom

Vanadi

Tecneci

Molibdé

Niobi

Reni

Tungsté

Tàntal

Bohri

Seaborgi

Dubni

|  |  |
| --- | --- |
| **1** |   |
| **2** |   |
| **3** |   |
| **4** | 26Fe |
| **5** | 44Ru |
| **6** | 76Os |
| **7** | 108Hs |

|  |  |
| --- | --- |
| **1** |   |
| **2** |   |
| **3** |   |
| **4** | 28Ni |
| **5** | 46Pd |
| **6** | 78Pt |
| **7** | 110Ds |

**10**

**8**

**9**

|  |  |
| --- | --- |
| **1** |   |
| **2** |   |
| **3** |   |
| **4** | 27Co |
| **5** | 45Rh |
| **6** | 77Ir |
| **7** | 109Mt |

Platí

Pal·ladi

Niquel

Meitneri

Iridi

Rodi

Cobalt

Hassi

Osmi

Ruteni

Ferro

Darmstadti

|  |  |
| --- | --- |
| **1** |   |
| **2** |   |
| **3** |   |
| **4** | 29Cu |
| **5** | 47Ag |
| **6** | 79Au |
| **7** | 111Rg |

|  |  |
| --- | --- |
| **1** |   |
| **2** |   |
| **3** |   |
| **4** | 30Zn |
| **5** | 48Cd |
| **6** | 80Hg |
| **7** | 112Cn |

|  |  |
| --- | --- |
| **1** |   |
| **2** | 5B |
| **3** | 13Al |
| **4** | 31Ga |
| **5** | 49In |
| **6** | 81Tl |
| **7** | 113Uut |

**12**

**13**

**11**

Bor

Alumini

Ununtri

Tal·li

Indi

Gal·li

Zinc

Copernici

Mercuri

Cadmi

Or

Roentgeni

Plata

Coure

|  |  |
| --- | --- |
| **1** |   |
| **2** | 6C |
| **3** | 14Si |
| **4** | 32Ge |
| **5** | 50Sn |
| **6** | 82Pb |
| **7** | 114Fl |

|  |  |
| --- | --- |
| **1** |   |
| **2** | 7N |
| **3** | 15P |
| **4** | 33As |
| **5** | 51Sb |
| **6** | 83Bi |
| **7** | 115Uup |

|  |  |
| --- | --- |
| **1** |   |
| **2** | 8O |
| **3** | 16S |
| **4** | 34Se |
| **5** | 52Te |
| **6** | 84Po |
| **7** | 87Lv |

Livermori

Poloni

Tel·luri

Seleni

Sofre

Oxigen

Ununpenti

Bismut

Antimoni

Arsènic

Fòsfor

Nitrogen

Flerovi

Plom

Estany

Germani

Silici

Carboni

**16**

**15**

**14**

**18**

**17**

|  |  |
| --- | --- |
| **1** |   |
| **2** | 9F |
| **3** | 17Cl |
| **4** | 35Br |
| **5** | 53I |
| **6** | 85At |
| **7** | 117Uus |

|  |  |
| --- | --- |
| **1** | 2He |
| **2** | 10Ne |
| **3** | 18Ar |
| **4** | 36Kr |
| **5** | 54Xe |
| **6** | 86Rn |
| **7** | 118Uuo |

Ununocti

Radó

Xenó

Criptó

Argó

Neó

Heli

Ununsepti

Àstat

Iode

Brom

Clor

Fluor