



De website www.chemieleerkracht.be

Microsoft apps : Periodiek Systeem

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- Microsoft apps periodiek systeem [LINK](#)
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Periodiek Systeem der Elementen

Revolution Software • [Boeken en naslagwerken](#) > [Naslagwerken](#)

De periodieke tabel app bevat gedetailleerde chemische en fysische informatie van alle chemische elementen. Breng wat leven in uw chemie op Windows!



PEGI 3
Digitale aankopen

Periodiek Systeem der Elementen kopen - Microsoft Store nl-BE

Periodiek Systeem

Zoek elementen

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-----------------------|-----------------------|----------------------------|--------------------------|-------------------------|------------------------|-----------------------|-------------------------|---------------------------|--------------------------|--------------------------|-------------------------|------------------------|--------------------------|--------------------------|-------------------------|----------------------------|----------------------|-------------------------|----------------------|-----------------------|--------------------------|---------------------------|--------------------------|--------------------------|-----------------------|------------------------|------------------------|--------------------------|-------------------------|------------------------|
| 1 H Waterstof | 2 He Helium | | | | | | | | | | | 3 Li Lithium | 4 Be Beryllium | 5 B Boor | 6 C Koolstof | 7 N Stikstof | 8 O Zuurstof | 9 F Fluor | 10 Ne Neon | | | | | | | | | | | | |
| | | Alkalimetalen | | Actiniden | | Halogeen | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Aardalkalimetalen | | Overige metalen | | Edelgas | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Overgangsmeta... | | Metalloïde | | Onbekend | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Lanthanide | | Niet-metalen | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 Na Natrium | 12 Mg Magnesium | 13 Al Aluminium | 14 Si Silicium | 15 P Fosfor | 16 S Zwavel | 17 Cl Chloor | 18 Ar Argon | 19 K Kalium | 20 Ca Calcium | 21 Sc Scandium | 22 Ti Titaan | 23 V Vanadium | 24 Cr Chroom | 25 Mn Mangaan | 26 Fe IJzer | 27 Co Kobalt | 28 Ni Nikkel | 29 Cu Koper | 30 Zn Zink | 31 Ga Gallium | 32 Ge Germanium | | | | | | | | | | |
| 37 Rb Rubidium | 38 Sr Strontium | 39 Y Yttrium | 40 Zr Zirkonium | 41 Nb Niobium | 42 Mo Molybdeen | 43 Tc Technetium | 44 Ru Ruthenium | 45 Rh Rhodium | 46 Pd Palladium | 47 Ag Zilver | 48 Cd Cadmium | 49 In Indium | 50 Sn Tin | 51 Sb Antimon | 52 Te Tellenur | 53 I Jodium | 54 Xe Xenon | 55 Cs Cesium | 56 Ba Barium | 57 La Lanthaan | 58 Ce Cerium | 59 Pr Praseodymium | 60 Nd Neodymium | 61 Pm Promethium | 62 Sm Samarium | 63 Eu Europium | 64 Gd Gadolinium | 65 Tb Terbium | 66 Dy Dyspromium | 67 Ho Holmium | |
| 87 Fr Francium | 88 Ra Radium | ** | 104 Rf Rutherfordium | 105 Db Dubnium | 106 Sg Seaborgium | 107 Bh Bohrium | 108 Hs Hassium | 109 Mt Meitnerium | 110 Ds Darmstadtium | 111 Rg Roentgenium | 112 Cn Copernicium | 113 Nh Nihonium | 114 Fl Flerovium | 115 Mc Moscovium | 116 Lv Livermorium | 117 Ts Tennessine | 118 Og Oganesson | 119 Uue | 120 Uuo | 121 Uut | 122 Uuq | 123 Uub | 124 Uuq | 125 Uub | 126 Uuq | 127 Uub | 128 Uuq | 129 Uub | 130 Uuq | | |
| | * | 57 La Lanthaan | 58 Ce Cerium | 59 Pr Praseodymium | 60 Nd Neodymium | 61 Pm Promethium | 62 Sm Samarium | 63 Eu Europium | 64 Gd Gadolinium | 65 Tb Terbium | 66 Dy Dyspromium | 67 Ho Holmium | 68 Er Erbium | 69 Tm Thulium | 70 Yb Ytterbium | 71 Lu Lutetium | 72 Hf Hafnium | 73 Ta Tantalum | 74 W Wolfram | 75 Re Rhenium | 76 Os Osmium | 77 Ir Iridium | 78 Pt Platina | 79 Au Goud | 80 Hg Kwik | 81 Tl Thallium | 82 Pb Lood | 83 Bi Bismut | 84 Po Polonium | 85 At Astatine | 86 Rn Radon |
| | ** | 89 Ac Actinium | 90 Th Thorium | 91 Pa Protactinium | 92 U Uraan | 93 Np Neptunium | 94 Pu Plutonium | 95 Am Americium | 96 Cm Curium | 97 Bk Berkelium | 98 Cf Californium | 99 Es Einsteinium | 100 Fm Fermium | 101 Md Mendelevium | 102 No Nobelium | 103 Lr Lawrencium | 104 Rf Rutherfordium | 105 Db Dubnium | 106 Sg Seaborgium | 107 Bh Bohrium | 108 Hs Hassium | 109 Mt Meitnerium | 110 Ds Darmstadtium | 111 Rg Roentgenium | 112 Cn Copernicium | 113 Nh Nihonium | 114 Fl Flerovium | 115 Mc Moscovium | 116 Lv Livermorium | 117 Ts Tennessine | 118 Og Oganesson |

Aluminium


Al
Aluminium

Reeks: Overige metalen
Atoomnummer: 13

Atoomgewicht: 26,98154

Radioactief: Nee

Elektronenconfiguratie: [Ne] 3s² 3p¹
2, 8, 3



Afbeelding credits: Wikimedia Commons (Pumbaa / Greg Robson)

Fysieke Info

Status: Vast

Dichtheid: 2,7 g·cm⁻³

Smeltpunt: 933,5 K

Kookpunt: 2740 K

Fusiewarmte: 10,7 kJ·mol⁻¹

Verdampingswarmte: 290,8 kJ·mol⁻¹

Soortelijke warmtecapaciteit: 0,9 J·g⁻¹·K⁻¹

Thermische geleidbaarheid: 237 W·m⁻¹·K⁻¹

Atomaire Info

Oxidatie Staten: 3

Covaleente straal: 1,18 Å


Elektronegativiteit: 1,61

Atomaire Radius: 1,43 Å

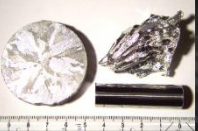
Atomaire Volume: 10 cm³·mol⁻¹

Ionisatie potentieel: 5,986 eV

Afbeeldingen



Afbeelding credits: <http://images-of-elements.com>



Afbeelding credits: <http://pse-mendelejew.de>

Links

- [Wikipedia](#)
- [WolframAlpha](#)
- [RSC Visual Elements](#)
- [PeriodicTable.com](#)
- [Images-Of-Elements.com](#)
- [WebElements](#)
- [Chemcool](#)



Periodiek systeem

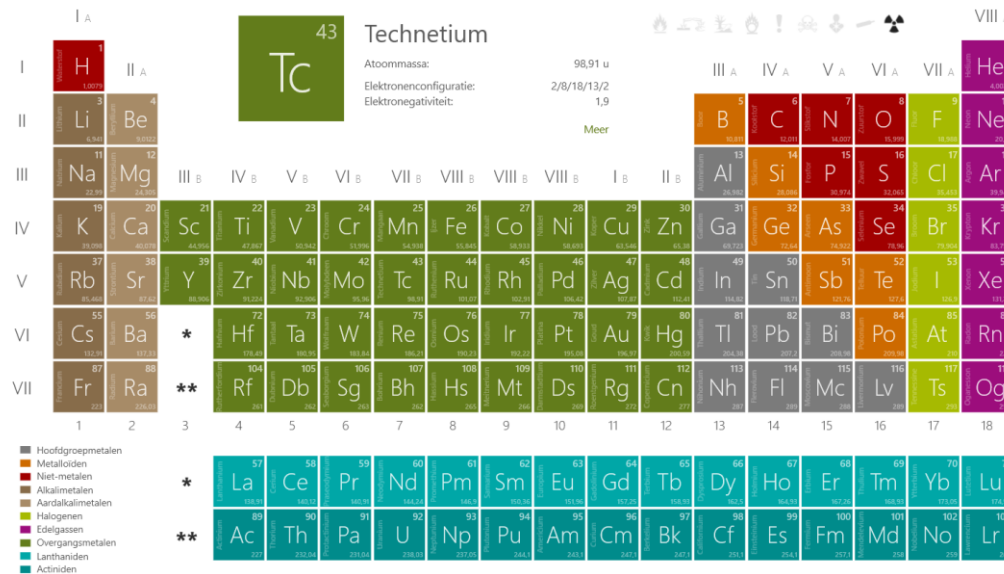
Asparion • [Educatief](#) > [Studiegidsen](#)

Dit is een eenvoudige periodiek systeem van de elementen. Het toont de verschillende groepen in verschillende kleuren en u kunt in- en uitzoomen. Het toont de atoommassa, de elektronegativiteit, het elektron configuratie en veel meer voor elk element. Er is ook een zoekfunctie inbegrepen. De perfecte app voor school of professionele

[Meer](#)

[Periodiek systeem kopen - Microsoft Store nl-BE](#)

Periodiek systeem



B

| | |
|-------------------------------------|--------------------------------------|
| Atomaire straal | 90 pm |
| Groep | Metalloïden |
| Gevaarsymbolen | |
| Elektronegativiteit (Pauling) | 2,04 |
| Elektronegativiteit (Allen) | 2,051 |
| Elektronegativiteit (Mulliken) | 1,83 |
| Elektronegativiteit (Allred-Rochow) | 2,01 |
| Elektronenconfiguratie | 2/3 |
| Elektronenconfiguratie | [He] 2s ² 2p ¹ |
| Fase | solide |
| Oxidatie Staten | +3 (-5 -1 +1 +2) |
| Dichtheid (vloeibaar) | 2,08 $\frac{g}{cm^3}$ |
| Smeltpunt | 2075,85 °C |
| Kookpunt | 3926,85 °C |
| ... | ... |

Boor



Elementen: Het Periodiek Stelsel

Naveen CS • [Boeken en naslagwerken](#) > [Naslagwerken](#)

Elementen: Het Periodiek Stelsel levert op één plaats uitgebreide en bruikbare informatie over de chemische elementen. Klik op een element om meer te weten te komen over de eigenschappen, historie, oorsprong van de naam, afbeeldingen, toepassingen, gevaren en elektronenschildiagram voor elk element.

[Elementen: Het Periodiek Stelsel kopen - Microsoft Store nl-BE](#)

PERIODIEK SYSTEEM

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 H | | | | | | | | | | | | | | | | | 2 He |
| 3 Li | 4 Be | | | | | | | | | | | 5 B | 6 C | 7 N | 8 O | 9 F | 10 Ne |
| 11 Na | 12 Mg | | | | | | | | | | | 13 Al | 14 Si | 15 P | 16 S | 17 Cl | 18 Ar |
| 19 K | 20 Ca | 21 Sc | 22 Ti | 23 V | 24 Cr | 25 Mn | 26 Fe | 27 Co | 28 Ni | 29 Cu | 30 Zn | 31 Ga | 32 Ge | 33 As | 34 Se | 35 Br | 36 Kr |
| 37 Rb | 38 Sr | 39 Y | 40 Zr | 41 Nb | 42 Mo | 43 Tc | 44 Ru | 45 Rh | 46 Pd | 47 Ag | 48 Cd | 49 In | 50 Sn | 51 Sb | 52 Te | 53 I | 54 Xe |
| 55 Cs | 56 Ba | * | 72 Hf | 73 Ta | 74 W | 75 Re | 76 Os | 77 Ir | 78 Pt | 79 Au | 80 Hg | 81 Tl | 82 Pb | 83 Bi | 84 Po | 85 At | 86 Rn |
| 87 Fr | 88 Ra | ** | 104 Rf | 105 Db | 106 Sg | 107 Bh | 108 Hs | 109 Mt | 110 Ds | 111 Rg | 112 Cn | 113 Nh | 114 Fl | 115 Mc | 116 Lv | 117 Ts | 118 Og |
| * Lanthaniden | 57 La | 58 Ce | 59 Pr | 60 Nd | 61 Pm | 62 Sm | 63 Eu | 64 Gd | 65 Tb | 66 Dy | 67 Ho | 68 Er | 69 Tm | 70 Yb | 71 Lu | | |
| ** Actiniden | 89 Ac | 90 Th | 91 Pa | 92 U | 93 Np | 94 Pu | 95 Am | 96 Cm | 97 Bk | 98 Cf | 99 Es | 100 Fm | 101 Md | 102 No | 103 Lr | | |

Alkalimetalen Aardalkalimetalen Overgangsmetalen Hoofdgroepmetalen Niet-metalen Metalloïden Halogenen Edelgassen Lanthaniden Actiniden

← SCANDIUM

21
Sc

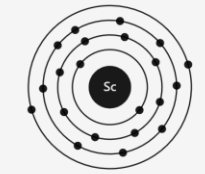
Protonen: 21
Elektronen: 21
Neutronen: 24

ALGEMENE EIGENSCHAPPEN

Atoomnummer: 21
Atomair gewicht: 44,955912
Massa Getal: 45

Groep: 3
Periode: 4
Blok: d

Elektronen per schil: 2, 8, 9, 2
Electronconfiguratie: [Ar] 3d¹ 4s²

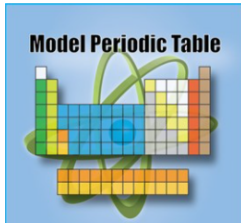


The stable form of scandium is created in supernovas via the r-process

ATOOMEIGENSCHAPPEN

Atoomstraal: 162 pm
Covalentiestraal: 170 pm
Electronegativiteit: 1,36 (Pauling schaal)
Ionisatiepotentiaal: 6,5615 eV
Atoomvolume: 15,00 cm³/mol
Thermische geleiding: 0,158 W/cm-K
Oxidatietoestanden: 1, 2, 3

Scandium is considered to be of low toxicity



Model Periodic Table

Model Science Software Inc. • [Educatief](#) > [Boeken en naslagwerken](#)

The "Model Periodic Table" is an interactive Periodic Table designed for students and teachers of chemistry. But it is much more than just a periodic table which list chemical properties. The Model Periodic Table is also a teaching tool which incorporates lessons and testing with the aim of developing a better understanding of the science behind the

[Meer](#)

[Model Periodic Table kopen - Microsoft Store nl-BE](#)

Model Periodic Table

| Group | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|----------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------|---------------------|---------------------|
| Period 1 | 1 H 1.00794 | | | | | | | | | | | | | | | | | 2 He 4.0026 |
| Period 2 | 3 Li 6.941 | 4 Be 9.01218 | | | | | | | | | | | 5 B 10.811 | 6 C 12.0107 | 7 N 14.0067 | 8 O 15.9994 | 9 F 18.9984 | 10 Ne 20.1797 |
| Period 3 | 11 Na 22.9897 | 12 Mg 24.305 | | | | | | | | | | | 13 Al 26.9815 | 14 Si 28.0855 | 15 P 30.9737 | 16 S 32.06 | 17 Cl 35.4527 | 18 Ar 39.948 |
| Period 4 | 19 K 39.0983 | 20 Ca 40.078 | 21 Sc 44.9559 | 22 Ti 47.867 | 23 V 50.9415 | 24 Cr 51.9961 | 25 Mn 54.938 | 26 Fe 55.845 | 27 Co 58.9332 | 28 Ni 58.6934 | 29 Cu 63.546 | 30 Zn 65.38 | 31 Ga 69.723 | 32 Ge 72.61 | 33 As 74.9216 | 34 Se 78.96 | 35 Br 79.904 | 36 Kr 83.798 |
| Period 5 | 37 Rb 85.4678 | 38 Sr 87.62 | 39 Y 88.9058 | 40 Zr 91.224 | 41 Nb 92.9063 | 42 Mo 95.94 | 43 Tc 98 | 44 Ru 101.07 | 45 Rh 101.905 | 46 Pd 106.42 | 47 Ag 107.868 | 48 Cd 112.411 | 49 In 114.818 | 50 Sn 118.71 | 51 Sb 121.76 | 52 Te 127.6 | 53 I 126.904 | 54 Xe 131.293 |
| Period 6 | 55 Cs 132.905 | 56 Ba 137.327 | 57 La 138.905 | 72 Hf 178.49 | 73 Ta 180.948 | 74 W 183.84 | 75 Re 186.207 | 76 Os 190.23 | 77 Ir 192.217 | 78 Pt 195.078 | 79 Au 196.966 | 80 Hg 200.59 | 81 Tl 204.383 | 82 Pb 207.2 | 83 Bi 208.98 | 84 Po 209 | 85 At 210 | 86 Rn 222 |
| Period 7 | 87 Fr 223 | 88 Ra 226 | 89 Ac 227 | 104 Rf 261 | 105 Db 262 | 106 Sg 266 | 107 Bh 270 | 108 Hs 269 | 109 Mt 278 | 110 Ds 281 | 111 Rg 285 | 112 Cn 285 | 113 Uut 286 | 114 Fl 289 | 115 Uup 289 | 116 Lv 293 | 117 Uus 294 | 118 Uuo 294 |

*Lanthanides

| | | | | | | | | | | | | | |
|---------------------|---------------------|--------------------|-----------------|--------------------|---------------------|--------------------|---------------------|-------------------|--------------------|--------------------|---------------------|---------------------|---------------------|
| 58 Ce 140.116 | 59 Pr 140.907 | 60 Nd 144.24 | 61 Pm 145 | 62 Sm 150.36 | 63 Eu 151.964 | 64 Gd 157.25 | 65 Tb 158.925 | 66 Dy 162.5 | 67 Ho 164.93 | 68 Er 167.26 | 69 Tm 168.934 | 70 Yb 173.054 | 71 Lu 174.967 |
|---------------------|---------------------|--------------------|-----------------|--------------------|---------------------|--------------------|---------------------|-------------------|--------------------|--------------------|---------------------|---------------------|---------------------|

**Actinides

| | | | | | | | | | | | | | |
|---------------------|---------------------|--------------------|---------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|
| 90 Th 232.038 | 91 Pa 231.035 | 92 U 238.028 | 93 Np 237.048 | 94 Pu 244 | 95 Am 243 | 96 Cm 247 | 97 Bk 247 | 98 Cf 251 | 99 Es 252 | 100 Fm 257 | 101 Md 258 | 102 No 259 | 103 Lr 266 |
|---------------------|---------------------|--------------------|---------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|

| | | | | |
|-------------------------|---------------------------------|---|------------------------|--|
| Name: Iridium | Symbol: Ir | Atomic Weight: 192.217 | Atomic Number: 77 | Oxidation States: +3,+4 |
| State (20°C): Solid | Density: 22.56g/cm ³ | Family: Transition Metals | CASRN: 7439-88-5 | Electron Configuration: [Xe] 4f¹⁴5d⁷6s² |
| Melting Point: 2719. °k | Boiling Point: 4701. °k | Electronegativity: 2.2 | Atomic Radius: 135. pm | 1st Ionization: 880. KJ./mole |

Description: A silvery white very hard and brittle metal



| | | | |
|----|----|----|----|
| Ca | Sc | Ti | V |
| Sr | Y | Zr | Ni |
| | | Hf | Ta |

Periodic Table

Flow Simulation Ltd. • [Boeken en naslagwerken > Naslagwerken](#)

Delen

[Periodic Table kopen - Microsoft Store nl-BE](#)

Interactive Periodic Table of the Elements with chemical and physical property data.



PERIODIC TABLE

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|------------------------------|-------------------------------|------------------------------|------------------------------------|------------------------------|---------------------------------|--------------------------------|-------------------------------|---------------------------------|-----------------------------------|----------------------------------|----------------------------------|-------------------------------|--------------------------------|--------------------------------|----------------------------------|---------------------------------|--------------------------------|
| H ¹ Hydrogen | | | | | | | | | | | | | | | | | He ² Helium |
| Li ³ Lithium | Be ⁴ Beryllium | | | | | | | | | | | B ⁵ Boron | C ⁶ Carbon | N ⁷ Nitrogen | O ⁸ Oxygen | F ⁹ Fluorine | Ne ¹⁰ Neon |
| Na ¹¹ Sodium | Mg ¹² Magnesium | | | | | | | | | | | Al ¹³ Aluminium | Si ¹⁴ Silicon | P ¹⁵ Phosphorus | S ¹⁶ Sulfur | Cl ¹⁷ Chlorine | Ar ¹⁸ Argon |
| K ¹⁹ Potassium | Ca ²⁰ Calcium | Sc ²¹ Scandium | Ti ²² Titanium | V ²³ Vanadium | Cr ²⁴ Chromium | Mn ²⁵ Manganese | Fe ²⁶ Iron | Co ²⁷ Cobalt | Ni ²⁸ Nickel | Cu ²⁹ Copper | Zn ³⁰ Zinc | Ga ³¹ Gallium | Ge ³² Germanium | As ³³ Arsenic | Se ³⁴ Selenium | Br ³⁵ Bromine | Kr ³⁶ Krypton |
| Rb ³⁷ Rubidium | Sr ³⁸ Strontium | Y ³⁹ Yttrium | Zr ⁴⁰ Zirconium | Nb ⁴¹ Niobium | Mo ⁴² Molybdenum | Tc ⁴³ Technetium | Ru ⁴⁴ Ruthenium | Rh ⁴⁵ Rhodium | Pd ⁴⁶ Palladium | Ag ⁴⁷ Silver | Cd ⁴⁸ Cadmium | In ⁴⁹ Indium | Sn ⁵⁰ Tin | Sb ⁵¹ Antimony | Te ⁵² Tellurium | I ⁵³ Iodine | Xe ⁵⁴ Xenon |
| Cs ⁵⁵ Caesium | Ba ⁵⁶ Barium | | Hf ⁷² Hafnium | Ta ⁷³ Tantalum | W ⁷⁴ Tungsten | Re ⁷⁵ Rhenium | Os ⁷⁶ Osmium | Ir ⁷⁷ Iridium | Pt ⁷⁸ Platinum | Au ⁷⁹ Gold | Hg ⁸⁰ Mercury | Tl ⁸¹ Thallium | Pb ⁸² Lead | Bi ⁸³ Bismuth | Po ⁸⁴ Polonium | At ⁸⁵ Astatine | Rn ⁸⁶ Radon |
| Fr ⁸⁷ Francium | Ra ⁸⁸ Radium | | Rf ¹⁰⁴ Rutherfordium | Db ¹⁰⁵ Dubnium | Sg ¹⁰⁶ Seaborgium | Bh ¹⁰⁷ Bohrium | Hs ¹⁰⁸ Hassium | Mt ¹⁰⁹ Meitnerium | Ds ¹¹⁰ Darmstadtium | Rg ¹¹¹ Roentgenium | Cn ¹¹² Copernicium | Nh ¹¹³ Nihonium | Fl ¹¹⁴ Flerovium | Mc ¹¹⁵ Moscovium | Lv ¹¹⁶ Livermorium | Ts ¹¹⁷ Tennessine | Og ¹¹⁸ Oganesson |

Nitrogen



liquid nitrogen being poured from a flask

| | | | | | | | | | | | | | | |
|-------------------------------|----------------------------|----------------------------------|-------------------------------|--------------------------------|------------------------------|------------------------------|--------------------------------|-----------------------------|--------------------------------|-----------------------------|----------------------------|-----------------------------|-------------------------------|------------------------------|
| La ⁵⁷ Lanthanum | Ce ⁵⁸ Cerium | Pr ⁵⁹ Praseodymium | Nd ⁶⁰ Neodymium | Pm ⁶¹ Promethium | Sm ⁶² Samarium | Eu ⁶³ Europium | Gd ⁶⁴ Gadolinium | Tb ⁶⁵ Terbium | Dy ⁶⁶ Dysprosium | Ho ⁶⁷ Holmium | Er ⁶⁸ Erbium | Tm ⁶⁹ Thulium | Yb ⁷⁰ Ytterbium | Lu ⁷¹ Lutetium |
| Ac ⁸⁹ | Th ⁹⁰ | Pa ⁹¹ | U ⁹² | Np ⁹³ | Pu ⁹⁴ | Am ⁹⁵ | Cm ⁹⁶ | Bk ⁹⁷ | Cf ⁹⁸ | Es ⁹⁹ | Fm ¹⁰⁰ | Md ¹⁰¹ | No ¹⁰² | Lr ¹⁰³ |