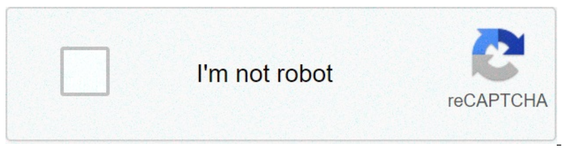

Continue

Standard reduction table

Standard reduction potential table alphabetical order. Consider the following table of standard reduction potentials. Standard reduction potential table. Standard reduction table pdf. Use the table of standard reduction potentials. Table 4b standard reduction potentials. Standard reduction potential table explained. The standard reduction potentials for the half-reactions are given in the table.

The following table provides EO for selected reduction reactions. The values come from the following sources: Bard, A. J.; Parsons, b.; Jordon, J., EDS. Potential standards in aqueous solutions, Dekker: New York, 1985; Milazzo, G.; Caroli, s; Sharma, V. K. Tables of potential standard electrodes, Wiley: London, 1978; Swift, E. H.; Butler, E. A. Quantitative measurements and chemical balances, Freeman: New York, 1972. The table is ordered in such a way that the strongest reducers (more reactive) are up and the highest oxidants are at the bottom. Standard cathode (reduction) Half reaction Standard reduction of the potential reduction potential e-â ° (Volt) Li + (AQ) + and- (\ DESIGN OF RIGHTLEFTHARPOONS) LI (s) -3.040 RB + + E- (LeftEftharpoons) RB / I - 2.98 K + (AQ) + K (s) -2.93 BA2 + + 2EÃ ¢ '(LeftEftharpoons) ba (s) -2.92 cs + (AQ) + E- (S) -2.92 BA2 + (AQ) + 2E- (S) -2.91 SR2 + (AQ) + 2E- (RightleftharpoonsÂ sr (s) -2.89 CA2 + (AQ) + 2E - (RightleftHarpoons) CA (s) -2.84 NA + (AQ) + (s) -2.713 mg (oh) 2 (s) + 2eÃ ¢ '(s) + 2ohÃ ¢' -2.687 la3 + + 3eÃ ¢ '(Rightleftharpoons) the (s) -2.38 mg2 + (AQ) + 2E- (S) -2.356 CE3 + + 3E '(S) -2.336 AL (OH) 4 + 3EÃ ¢' (S) + 4OHÃ ¢ '-2.310 ALF63Ã ¢' + 3EÃ ¢ '(S) + 6FÃ ¢' -2.07 BE2 + + 2 Ã ¢ '(s) -1.99 b (oh) 4 + 3EÃ ¢' (Rightleftharpoons) b (s) + 4ohã, '-1.811 AL3 + (AQ) + 3E- (DISORTLEFTLEFLEFTHARPOONS AL / i -1.676 U3 + + 3EÃ ¢ '(RightleftHarpoons) u (s) -1.66 ZNO2- + 4H + + 4EÃ ¢' (LEFTEFTHARPOONS) ZR (S) + 2H2O Ã, -1.473 siF62ã, '+ 4EÃ ¢' (s) + 6FÃ ¢ '-1.37 ZN (CN) 42' + 2EÃ ¢ ' (oh) 42ã, '+ 2EÃ ¢' (l) + 4ohÃ ¢ '-1.285 mn2 + + 2EÃ ¢' (s) -1.17 cd (s) + Ã , 2EÃ ¢ 'Ã ¢ cd (s) + s2Ã,' -1.17 v2 + + 2eÃ ¢ 'Ã ¢ ¢ (l) v / i -1.13 2so32ã,' + 2h2o (L) + 2EÃ ¢ '(LeftEftharpoons) S2O42Ã,' + 4 Â ° HÃ, '-1.13 ZN (NH3) 42+ + 2EÃ ¢' (LeftEftharpoons) ZN + 4NH3 -1.04 O2 (AQ) + E- (reseleftharpoons) O2- (AQ) -1.0 CD (CN) 42 "+ 2EÃ ¢ 'CD (s) + 4cnÃ ¢' -0.943 Moo42ã, '+ 4H2O (L) + 6EÃ ¢' (THERELEFLEWHARPONS) MO (s) + 8ohÃ ¢ '-0.913 SO42' + H2O (L) + 2EÃ ¢ '(resetleftharpoons) SO32Ã,' + 2ohã, '-0.936 SIO2 (s) + 4h + + 4EÃ ¢'.) + 2H2O (L) -0.909 CR2 + + 2EÃã, ' 3H2O (L) -0.890 2H2O (L) + 2- (LeftEftharpoons) H2 (g) + 2oh- (AQ) -0.828 ZN2 + (AQ) + 2E- (right) ZN (s) - 0.7618 CO (OH) 2 (s) + 2EÃ ¢ '(s) + 2ohÃ ¢' -0.746 CR3 + (AQ) + 3E- (Rightleftharpoons) CR (s) -0.74 ni (oh) 2 + 2EÃ ¢ ni (s) + 2ohÃ ¢ '-0.72 ag2s (s) + 2eÃ ¢' (s) + 2AG (s) + s2Ã ¢ '-0.71 if (s) + 2EÃ ¢ '(Rightleftharpoons) SE2Ã,' -0.67 in 1 m NaOH CD (NH3) 42+ + 2EÃ ¢ '(RightleftHarpoons) CD (s) + 4NH3 - 0.622 2SO32Ã,' + 3H2O (L) + 4EÃ, '(LeftEftharpoons) S2O32Ã,' + 6OHÃ ¢ '-0.576 in 1 m Naoo Ga3 + + 3EÃ ¢' RightleftHarpoons ga (s) -0.56 U4 + + ¢ '(DELLEFTHARPOONS U3 + -0.52 SIIO 2 / i + 8h + + 8EÃ ¢ '(alfleftharpoons) sih4 (g) + 2h2o (l) -0.516 sb + 3h + + 3EÃ ¢' (Rightleftharpoons) SBH3 (G) -0.510 H3PO3 + 2h + + 2EÃ ¢ '(Rightleftharpoons) H3PO2 + H2O (L) -0.50 Ni (NH3) 62+ + 2EÃ ¢' (LeftEftharpoons) Ni (s) + 6NH3 -0.49 2CO2 (G) + 2h + + 2Eã, '(Rightleftharpoons) H2C2O4 -0.481 CR3 + + Ã,' (Right Eftharpoons) CR2 + -0.424 FE2 + (AQ) + 2E- (RightleftHarpoons) FE (s) -0.44 S (s) + 2EÃ ¢ 'Rightleftharpoons s2Ã,' -0.407 CD2 + (AQ) + 2E - rightleftharpoons \ cd (s) -0.0.4030 AG (NH3) 2+ + EÃ¢ '\ (\ destraLeftharpoons \ AG (s) + 2NH3 -0.373 TI3 + + EÃ' \ (\ rightleftharpoons \ TI2 + - 0,37 pso4 / i + 2eÃ¢ '\ (\ rightleftharpoons \ Pb (s) + SO42Ã' -0.356 CO2 + (AQ) + 2E- \ (\ rightleftharpoons \ co (s) -0.277 2SO42Ã '+ 4h + + + 2eÃ¢ '\ (\ destraleftharpoons \ s2o62Ã' + + -0.25 N2 (g) + 5H + + 4EA \ (\ rightleftharpoons \ N2H5 + -0.23 H3PO4 + 2H + + 2ea \ (\ rightleftharpoons \ H3PO3 + H2O (l) -0.28 Ni2 + (aq) + 2e- \ (\ \ rightleftharpoons) Ni (s) -0,257 V3 + + EA \ (\ rightleftharpoons \ V2 + -0,255 Come + 3H + + 3EA \ (\ rightleftharpoons \ AsH3 (g) -0,225 CO2 (g) + 2H + + 2ea \ (\ \ rightleftharpoons) HCO2H -0.20 MO3 + + 3EA \ (\ \ rightleftharpoons) Mo (i) -0.2 Ti2 + + 2ea \ (\ \ rightleftharpoons) Ti (s) -0.163 Moo2 (s) + 4H + + 4EA \ (\ \) rightleftharpoons Mo (i) + 2H2O (l) -0.152 Agi (i) + EA \ (\ \) rightleftharpoons Ag (s) + IA -0,152 Sn2 + (aq) + 2e- \ (\ rightleftharpoons \ Sn (s) -0,136 CrO42Â¢ + 4H2O (l) + 3EA \ (\ rightleftharpoons \ 2Cr (OH) 4 bis + 4OHÂ¢ -0.13 in 1 M NaOH Pb2 + (aq) + 2e- \ (\ rightleftharpoons \ Pb (s) -0,126 WO2 (s) + 4H + + 4EA \ (\ rightleftharpoons \ W (s) + 2H2O (l) -0,119 Se (s) + 2H + + 2ea \ (\ rightleftharpoons \ H2Se (g) -0,115 CO2 (g) + 2H + + 2ea \ (\ \ rightleftharpoons) CO (g) + H2O (l) -0.106 WO3 (s) + 6H + + 6EA \ (\ rightleftharpoons \ W (s) + 3H2O (l) -0,090 Hg2I2 (s) + 2ea \ (\ \) rightleftharpoons 2HG (l) + -0,0405 2IÂ¢ Fe3 + (aq) + 3e- \ (\ \ rightleftharpoons) Fe (s) -0.037 2H + (aq) + 2e- \ (\ rightleftharpoons \ H2 (g) 0.00 P (s, bianco) + 3H + + 3EA \ (\ rightleftharpoons \ PH3 (g) 0.06 AgBr (i) + EA \ (\ rightleftharpoons \ Ag (s) + Bra 0,071 S4O62Â¢ + 2ea \ (\ \ rightleftharpoons) 2S2O32Â¢ 0.080 Co (NH3) 63+ + EA \ (\ rightleftharpoons \ Co (NH3) 62+ 0,1 Ru (NH3) 63+ + EÃ¢ \ (\ \ rightleftharpoons) Ru (i) + Ru (NH3) 62+ 0,10 s (s) + 2H + + 2 sexies \ (\ \ rightleftharpoons) H2S 0.144 Sn4 + (aq) + 2e- \ (\ rightleftharpoons \ Sn2 + (aq) 0,154 Cu2 + (aq) + e- \ (\ rightleftharpoons \ Cu + (aq) 0,159 UO22 + + EA \ (\ rightleftharpoons \ UO2 + 0,16 Co (OH) 3 (s) + EA \ (\ \) rightleftharpoons Co (OH) 2 (s) + Oha 0.17 ClO4- (aq) + H2O (l) + 2e- \ (\ rightleftharpoons \ ClO3- (aq) + 2OH- (aq) 0,17 SO42Â¢ + 4H + + 2ea \ (\ rightleftharpoons \ H2SO3Ã (aq) + H2O (l) 0,172 BiCl4Â¢ + 3EA \ (\ \) rightleftharpoons Bi (s) + 4ClÂ¢ 0,199 Sbo + + 2H + + 3EA \ (\ rightleftharpoons \) Sb (s) + H2O (l) 0,212 AgCl (s) + e- \ (\ rightleftharp oons \) Ag (s) + Cl- (aq) 0,2223 HCHO + 2H + + 2ea \ (\ \) rightleftharpoons CH3OH 0,2323 HAsO2 + 3H + + 3EA \ (\ rightleftharpoons \ come (s) + 2H2O (l) 0,240 RU3 + + EA \ (\ rightleftharpoons \ Ru2 + 0,249 IO3Â¢ + 3H2O (l) + 6EA \ (\ rightleftharpoons \) IA + 6OHÂ¢ 0,257 Hg2Cl2 (s) + 2ea \ (\ rightleftharpoons \) 2HG (l) + 2ClÂ¢ 0,2682 UO2 + + 4H + + EA \ (\ rightleftharpoons \ U4 + + 2H2O (l) 0,27 Bi3 + + 3EA \ (\ \) rightleftharpoons Bi (s) 0,317 UO22 + + 4H + + 2ea \ (\ rightleftharpoons \ U4 + + 2H2O (l) 0,327 VO2 + + 2H + + EA \ (\ rightleftharpoons \ V3 + + H2O (l) 0,337 Cu2 + (aq) + 2e- \ (\ rightleftharpoons \ Cu (s) 0,3419 ClO3- (aq) + H2O (l) + 2e- \ (\ rightleftharpoons \ ClO2- (aq) + 2OH- (aq) 0,35 Fe (CN) 63A + EA \ (\ \ rightleftharpoons) Fe (CN) 64a 0,356 O2 (g) + 2H2O (l) + 4EA \ (\ rightleftharpoons \ 4OHÂ¢ 0.401 ClOÂ¢ + H2O (l) + EA \ (\ rightleftharpoons \ ÂÂ½Cl2 (g) + 2OHÂ¢ 0.421 in 1 M NaOH Ag2C2O4 (s) + 2ea \ (\ rightleftharpoons \ 2Ag (s) + C2O42Â¢ 0,47 Cu + (aq) + e- \ (\ \ rightleftharpoons) Cu (i) 0,52 I2 (s) + 2e- \ (\ rightleftharpoons \ 2I- (aq) 0,5355 I3A + 2ea \ (\ \ rightleftharpoons) 3iA 0,536 Cu2 + + CLA + EA \ (\ rightleftharpoons \ CuCl (s) 0,559 H3AsO4 + 2H + + 2ea \ (\ rightleftharpoons \ HAsO2 + 2H2O (l) 0.560 S2O62Â¢ + 4H + + 2ea \ (\ \) rightleftharpoons 2H2SO3 0,569 ClO2- (aq) + H2O (l) + 2e- \ (\ rightleftharpoons \ ClO- (aq) + 2OH- (aq) 0.59 MnO4Â¢ + 2H2O (l) + 3EA \ (\ rightleftharpoons \ MnO2 (s) + 0,60 4OHÂ¢ Sb2O5 (s) + 6H + + 4EA \ (\ \) rightleftharpoons 2SbO + + 3H2O (l) 0,605 PtCl62Â¢ + 2ea \ (\ \) rightleftharpoons PtCl42- + 2ClÃ¢ 0.68 RuO2 (s) + 4H + + 4EA \ (\ rightleftharpoons \ Ru (s) + 2H2O (l) 0,68 O2 (g) + 2H + + 2ea \ (\ \) rightleftharpoons H2O2 0,695 PtCl42Ã¢ + 2ea \ (\ \) rightleftharpoons Pt (s) + 0,73 4ClÃ¢ H2SeO3 + 4H + + 4EA \ (\ rightleftharpoons \ SE (s) + 3H2O (l) 0,74 Tl3 + + 3EA \ (\ rightleftharpoons \ Tl (s) 0.742 Tl3 + + 2ea \ (\ rightleftharpoons \) Tl + 0,77 in 1 M HCl Fe3 + (aq) + e- \ (\ rightleftharpoons \) Fe2 + (aq) 0.771 HG22 + (aq) + 2e- \ (\ rightleftharpoons \ 2HG (l) 0,7960 Ag + (aq) + e- e- AG (s) 0.7996 HG2 + (AQ) + 2E- \ (\ destraleftharpoons \ hg (l) 0,8535 cu2 + + '+ eÃ¢' \ (\ destraleftharpoons \) cui (s) 0.86 ru (cn) 63Ã ' + eÃ¢ '\ (\ destraleftharpoons \) ru (s) + ru (cn) 64' 0,86 cloÃ¢ '+ h2o (l) + 2eÃ¢' \ (\ destraleftharpoons \) clÃ '+ 2ohÃ¢' 0.890 in 1 m naoh 2HG2 + (AQ) + 2E- \ (\ rightleftharpoons \ HG22 + (AQ) 0.911 HGO (s) + 2H + + 2EÃ '\ (\ destraLeftharpoons \ HG (L) + H2O (L) 0.926 NO3Ã' + 3h + + 2eÃ¢ '\ \ (\ rightleftharpoons \ HNO2 + H2O (L) 0.94 MNO2 / i + 4H + + E- \ (\ rightleftharpoons \ mn3 + (AQ) + 2H2O (L) 0.95 No3- (AQ) + 4h + (AQ) + 3E- \ (\ rightleftharpoons \ no (g) + 2h2o (l) 0.96 hio + h + + 2eÃ¢ '\ (\ rightleftharpoons \ IÃ¢' + h2o (l) 0.985 HNO2 + H + + E '\ (\ Rightleftharpoons \ no (g) + h2o (l) 0.996 vo22 + + 2h + + eÃ¢' \ (\ rightleftharpoons \ VO2 + + H2O (L) 1.000 AUCL4 '+ 3EÃ¢' \ (\ destraLeftharpoons \ ) Au (s) + 4CLÃ '1.002 N Ã° 2 (G) + H + (AQ) + E- \ (\ Rightleftharpoons \ HNO2 (AQ) 1.07 BR2 (l) + 2E- \ (\ rightleftharpoons \ 2br- (AQ) 1.087 Fe (Phen) 63+ + EÃ¢ '\ (\ destraLeftharpoons \ Fe (Phen) 62+ 1.147 SEO43Ã' + 4H + + + eÃ¢ '\ (\ destraleftharpoons \ h2seo3 + h2o (l) 1.151 clo3Ã¢' + 2h + + eÃ¢ '\ (\ rightleftharpoons \ clo2 (g) + h2o 1.175 clo3Ã' + 3h + + 2eÃ¢ '\ (\ destraleftharpoons \ hclo2 + h2o 1.181 Io3Ã '+ 6h + + 5eÃ¢' \ (\ destrhartharpoons \ Ã¢Â½i2 / i + 3h2o (l) 1.195 pt2 + + 2eÃ¢ '\ (\ destrhartharpoons \ PT (s) 1.2 clo4 '+ 2h + + 2eÃ¢' \ (\ rightleftharpoons \ clo3Ã¢ '+ h2o 1.201 o2 (g) + 4h + (AQ) + 4e- \ (\ rightleftharpoons \ 2H2O (L) 1.229 MNO2 / i + 4H + + 2eÃ¢ '\ (\ rightleftharpoons \ mn2 + + 2h2o (l) 1.23 2hno2 + 4h + + 4eÃ¢' \ (\ destraleftharpoons \ N2O (G) + 3H2O (L) 1.297 Hobr + H + + 2eÃ¢ '\ (\ destra \ BrÃ¢ '+ h2o (l) 1.341 CR2O72- (AQ) + 14h + (AQ) + 6E- \ (\ resetleftharpoons \ 2Cr3 + (AQ) + 7H2O (L) 1.36 AU3 + + 2EÃ' \ Rightleftharpoons \ ) AU + 1.36 HG2BR2 (s) + 2eÃ¢ '\ (\ rightleftharpoons \ 2HG (L) + 2BRÃ' 1.392 cl2 (G) + 2E- \ (\ rightleftharpoons \ 2CL- (AQ) 1.396 HG2BR2 (s) + 2eÃ¢ '\ (\ destraleftharpoons \ 2HG (L) + 2BRÃ' 1.392 CE4 + (AQ) + E- \ (\ rightleftharpoons \ CE3 + (AQ) 1.44 PBO2 (S) + 4H + + 2E- \ (\ destra raddleftharpoons \ ) PB2 + (AQ) + 2H2O (l) 1.46 Bro3Ã '+ 6h + + 6eÃ¢' \ (\ destraleftharpoons \ brÃ¢ '+ 3h2o 1.478 mn3 + + eÃ¢' \ (\ destraleftharpoons \ mn2 + 1,5 bro3Ã¢ '+ 6h + + 5eÃ¢' \ (\ rightleftharpoons \ ÂÂ½br2 (l) + 3H2O 1.5 MNO4- (AQ) + 8H + (AQ) + 5E- \ (\ destrharthar poons \ mn2 + (AQ) + 4H2O (L) 1.51 AU3 + + 3EÃ '\ (\ reseleftharpoons \ au (s) 1.52 2no (g) + 2h + + 2eÃ¢ '\ (\ destraleftharpoons \ n2o (g) + h2o (l) 1.59 hobr + h + + eÃ¢' \ rightleftharpoons \ ÂÂ½brÃ¢ ' + H2O (l) 1.604 hclo2 + 2h + + 2eÃ¢ '\ (\ destraleftharpoons \ hocl + h2o 1.64 pbo2 / i + so42Ã' + 4h + + 2eÃ¢'Ã¢ \ (\ rightleftharpoons \ pso4 (s) + 2h2o (l) 1.690 MNO4Ã '+ 4H + + 3E Â»\ (\ destraleftharpoons \ MNO2 / i + 2H2O (L) 1.70 CE4 + + EÃ' \ (\ destraleftharpoons \ CE3 + 1.72 N2O (G) + 2H + + 2E '\ (\ Rightleftharpoons \ N2 (G) + H2O (L) 1.77 H2O2 (AQ) + 2H + (AQ) + 2E- \ (\ destrharthar poons \ 2H2O (L) 1.763 AU + + EÃ' \ (\ DETWSLEFTHARPONO \ Au (s) 1.83 CO3 + (AQ) + E- \ \ (\ rightleftharpoons \ CO2 + (AQ) 1.92 S2O82Ã '+ 2EÃ¢' \ (\ destraleftharpoons \ 2SO42 '1.96 O3 (G) + 2H + (AQ) + 2e- \ (\ rightleftharpoons \ o2 (G) + H2O (L) 2.07 BAO (s) + 2H + + 2EÃ¢ '\ (\ destraLeftharpoons \ BA (s) + H2O (l) 2.365 F2 (G) + 2E- \ (\ destraLeftharpoons \ 2f- (AQ) 2.87 F2 (G) + 2H + + 2EÃ '\ (\ destraLeftharpoons \ 2HF 3.053 Contributor e attribuzioni David Harvey (DEPAUW University) UniversitÃ)

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