

maximum potential difference between 2 half cells when no current is flowing under standard conditions of 25C, 1 atm pressure and in solution of 1M concentration

▼ buffer solution

solution that resist large pH change on addition of small amounts of acid or alkali

▼ solubility

maximum amount that can dissolve in a fixed volume or fixed mass of solvent at a fixed temperature

▼ solubility product

product of conc of ions in a saturated solution of salt, raised to the appropriate powers

▼ transition element

elements forming one or more stable ions with partially filled d orbital

▼ transition metal complex

a molecule or ion formed by a central metal ion surrounded by one or more ligands

▼ complex ion

an ion formed by a central metal ion bonded to one or more ligands

▼ coordination number

number of bonds bonded to an atom / metal

▼ monodentate ligand

forms 1 dative bond to central metal ion per ligand

▼ bidentate ligand

one ligand use 2 lone pairs to form 2 dative bond to central metal ion

▼ polydentate ligand

one ligand use many lone pairs to form many dative bond to central metal ion

▼ homogeneous catalysis - transitional element

variable oxidation state enable transitional element to take part in a sequence of redox reaction with lower E_a

▼ heterogeneous catalysis - transitional element