# 12 Chem Vocab

|  |  |
| --- | --- |
| greenhouse gases |  |
| greenhouse effect |  |
| anthropogenic |  |
| thermal balance |  |
| climate change |  |
| ocean acidification |  |
| dissolution |  |
| carbonates |  |
| acidic conditions |  |
| pollutants |  |
| troposphere |  |
| photochemical smog |  |
| catalytic converter |  |
| quantitative |  |
| stoichiometric |  |
| chromatography |  |
| components |  |
| mobile phase |  |
| stationary phase |  |
| polarity |  |
| composition |  |
| Rf value |  |
| retention time |  |
| cation |  |
| anion |  |
| ion exchange |  |
| atomic absorption spectroscopy |  |
| analytical technique |  |
| monatomic ion |  |
| absorption |  |
| emission |  |
| wavelength |  |
| sample |  |
| calibration graph |  |
| inorganic |  |
| enzyme |  |
| collision theory |  |
| energy profile diagram |  |
| enthalpy |  |
| activation energy |  |
| enthalpy change |  |
| open or closed system |  |
| reversible chemical reaction |  |
| chemical equilibrium |  |
| position of equilibrium |  |
| Kc constant |  |
| Kc expression |  |
| homogeneous equilibrium system |  |
| Le Chatelier’s principle |  |
| exothermic |  |
| endothermic |  |
| chemical-synthesis process |  |
| raw material |  |
| waste-product |  |
| by-product |  |
| yield |  |
| catalyst |  |
| molecular formula |  |
| structural formula |  |
| extended structural formula |  |
| condensed structural formula |  |
| skeletal structural formula |  |
| systematic name |  |
| unambiguous |  |
| condensation reaction |  |
| alcohol |  |
| primary, secondary, tertiary |  |
| oxidising agent |  |
| acidified dichromate |  |
| aldehyde |  |
| ketone |  |
| alkaline conditions |  |
| Tollen’s reagent |  |
| carbohydrate |  |
| hydrolysis |  |
| mono-, di-, polysaccharide |  |
| repeating unit |  |
| aqueous |  |
| carboxylic acid |  |
| hydrogencarbonates |  |
| carboxylate salts |  |
| parent carboxylic acid |  |
| amine |  |
| protonated form |  |
| parent molecular amine |  |
| ester |  |
| polyester |  |
| reflux |  |
| amides |  |
| polyamide |  |
| edible oils and fats |  |
| glycerol |  |
| triglycerides |  |
| degree of unsaturation |  |
| hydrogenation |  |
| hydrophilic |  |
| hydrophobic |  |
| micelles |  |
| proteins |  |
| amino acids |  |
| self-ionise |  |
| ‘peptide links’ |  |
| spatial arrangement |  |
| biological function |  |
| photosynthesis |  |
| respiration |  |
| aerobic |  |
| fossil fuel |  |
| anaerobic |  |
| decomposition |  |
| renewable |  |
| carbon-based fuel |  |
| feedstock |  |
| biofuel |  |
| complete/incomplete combustion |  |
| enthalpy of combustion |  |
| thermochemical |  |
| fuels |  |
| heat evolved |  |
| steam turbines |  |
| photovoltaic cells |  |
| galvanic cells |  |
| fuel cells |  |
| flow cells |  |
| electrode |  |
| anode |  |
| cathode |  |
| suspended |  |
| flocculation |  |
| sedimentation |  |
| filtration |  |
| silicate |  |
| aluminosilicate |  |
| precipitate |  |
| zeolite |  |
| water softener |  |
| reverse osmosis |  |
| semi-permeable membrane |  |
| potable |  |
| saline |  |
| desalination |  |
| thermal distillation |  |
| hypochlorous acid |  |
| chlorine |  |
| hypochorites |  |
| water disinfection |  |
| nutrient |  |
| soil productivity |  |
| fertiliser |  |
| nitrogen-fixing bacteria |  |
| leached |  |
| eutrophication |  |
| adsorbed |  |
| polymer |  |
| addition reaction |  |
| polymerisation |  |
| synthetic |  |
| thermoplastic |  |
| thermoset |  |
| rigidity |  |
| monomer |  |
| physical properties |  |
| cross-linking |  |
| biodegradable |  |
| reduction |  |
| electrolysis |  |
| molten |  |
| reducing agent |  |
| electrolytic cells |  |
| composite |  |
| constituent |  |
| comprising |  |