

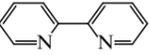
Abbreviations

ax. – axial
 ac. – acid
 act. – active, action
 alc. – EtOH
 amorph. – amorphous
 an. – anode, anodic
 aq. reg. – aqua regia (1 vol. HNO₃ + 3 vol. HCl)
 at. – atom
 atm. – atmosphere
 b.p. – boiling point
 bas. – base, -ic
 bipy. – bipyramidal
 bl. – blue
 blk. – black
 br. – bridging
 brn. – brown
 bz. – benzene
 cat. – catalyst
 cath. – cathode
 chem. – chemical
 close pack. – close pack(ing)
 CN – coordination number
 col. – colour
 coll. – colloid
 colrl. – colourless
 conc. – concentration, concentrated
 cool. – cooling
 cr. – crystals, crystalline
 cub. – cubic
 dec. – decomposition
 diamagn. – diamagnetic
 dif. – difference
 dil. – diluted
 diss. – dissociation
 E – element
 el. – electric
 E.N. – electronegativity
 eq. – equilibrium
 equ. – equatorial
 eth. – ether Et₂O
 ex. – excess
 exp. – explosive
 extr. – extr(action)
 ferromagn. – ferromagnetic
 form. – formation, -s
 gas. – gaseous
 gr. – group

grn. – green
 h – hour
 Hal – halogen
 hex. – hexagonal
 hydrol. – hydrolysis
 hyg. – hygroscopic
 IR – infra-red
 infl. – inflame
 insol. – insoluble
 inst. – instantaneously
 isoel. – isoelectric
 isostruct. – isostructural
K – constant
 liq. – liquid
 M – metal
 min – minute
 m.p. – melting point
 metastab. – metastable
 mol. – molecule, -ar
 monocl. – monoclinic
 org. – organic
 Ox – oxidation, -ant
 paramagn. – paramagnetic
 pentag. – pentagonal
 ppt. – precipitate
 prop. – property
 purp. – purple
 react. – react, -ive, -ion
 Red – reduction
 rh. – rhom, -bic
 s – second
 sld. – solid
 sol. – soluble
 soln. – solution
 solv. – solvent
 soly. – solubility
 SP – solubility product
 stab. – stable, -ility
 struct. – structure, -al
 subl. – sublimation
 subst. – substance
 sym. – symmetrical
 termnl. – terminal
 tetrag. – tetragonal
 tricl. – triclinic
 trig. – trigonal
 UV – ultra-violet
 unstab. – unstable
 v. – very
 vac. – vacuo
 viol. – violet

visc. – viscous
 vol. – volume, -inous
 volat. – volatile
 wh. – white
 wt. – weight
 X – anion
 yel. – yellow

Symbols and units

Ac – acyl, CH₃CO
 Am – amine
 Bu – butyl, C₄H₉
d – density, g/cm³
 DMF – dimethylformamide
 Diox – dioxane, 
 Dipy – 2,2'-dipyridyl, 
e – electron
 $\sum e$ – the sum of valence electrons
*E*₀ – normal electrode potential, V
 En – ethylenediamine, (NH₂—CH₂)₂
 Et – ethyl, C₂H₅
 [H[†]] – nascent hydrogen
L – ligand
hν-UV(Vis) – irradiation with UV (visible) light
 Me – methyl, CH₃
p – pressure
 Ph – phenyl, C₆H₅
 Phen – 1,10-phenanthroline, 
 Pr – propyl, C₃H₇
 Py – pyridine, 
t – temperature, °C
 THF – tetrahydrofuran, 
 ϵ – dielectric constant
 ΔH – standard heat of formation, kJ/mol
 μ – dipole moment, *D*
 μ_{eff} – magnetic moment, μ_B
 μ_n -L – bridging ligand (*n*-dentate)
 ψ – octahedron (tetrahedron *etc.*), an incomplete coordination polyhedron one or several vertices of which are occupied by localised electron pairs