

Gabriel synthesis



Nitrogen and Phosphorus Containing Compounds

- Strecker synthesis $\rightarrow$ amine/amide (amine group + nitrile group) $\rightarrow$ amino acid
- Gabriel synthesis: SN2, hydrolysis, decarboxylation $\rightarrow$ amino acid
- Hydrolytic release of PPi $\rightarrow$ provides energy
- Phosphoric acid: 3 H, each with unique pKa values $\rightarrow$ buffer over a large pH range

Spectroscopy

- IR - absorbs light of specific wavenumber $\rightarrow$ vibrates (symmetric bonds and stretches)
 - O-H: 3300 broad, N-H: 3300 sharp, C=O: 1700 sharp
- UV - measure absorption of UV light $\rightarrow$ causes movement of electrons (e- MO)
 - more conjugation $\rightarrow$ lower energy for transmission and longer wavelength
 - Smaller gap for HOMO and LUMO $\rightarrow$ move easily from one orbital to another (easily excited) and absorb longer wavelengths (lower frequency, lower energy)
 - More conjugation - absorbs light in visible range
- NMR - excite from alpha (lower energy) state to beta (higher energy) state
 - Left: downfield, deshielded

Separations and Purifications

- Extraction: organic and aqueous phase as separatory funnel $\rightarrow$ mixing
- Filtration: residue, filtrate
- Recrystallisation: heat, cool - recrystallise out of solution
- Distillation: simple: difference $>25^\circ\text{C}$; superheating when liquid is heated above BP w/o vaporization, happens when gas bubbles can not overcome column of atmosphere

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gioachino rossini who was only 23 years old at the time and it was the first of the 9 works he

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