Wavenumbers for functional groups

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| Functional Group | Wavenumber (cm-1) | Intensity of absorption |
| C-H | 2850-2960 | Medium to strong |
| =C-H | 3020-3100 | Medium |
| C=C | 1650-1670 | Strong |
| O-H alcohol | 3200-3600 | Strong and Broad |
| C-O | 1050-1150 | Strong |
| Benzene | 1500-1600 | Strong |
| Aromatic C-H | 3030 | Medium |
| N-H | 3310-3500 | Medium |
| C-N | 1030-1230 | Medium |
| C=O | 1670-1780 | Strong |
| O-H on an acid | 2500-3100 | Strong and Broad |
| NO2 | 1540 | Strong |
| Nitriles | 2210-2260 | Medium |