

## Lampiran 2. Tabel Gugus Fungsi Untuk Senyawa Organik

Bond	Type of Compound	Frequency Range, $\text{cm}^{-1}$	Intensity
C—H	Alkanes	2850–2970	Strong
C—H	Alkenes ( $\text{>C=C<H}$ )	1340–1470	Strong
C—H	Alkenes ( $\text{>C=C<H}$ )	3010–3095	Medium
C—H	Alkynes ( $\text{—C}\equiv\text{C—H}$ )	675–995	Strong
C—H	Aromatic rings	3300	Strong
C—H	Aromatic rings	3010–3100	Medium
C—H	Aromatic rings	690–900	Strong
O—H	Monomeric alcohols, phenols	3590–3650	Variable
O—H	Hydrogen-bonded alcohols, phenols	3200–3600	Variable, sometimes broad
O—H	Monomeric carboxylic acids	3500–3650	Medium
O—H	Hydrogen-bonded carboxylic acids	2500–2700	Broad
N—H	Amines, amides	3300–3500	Medium
C=C	Alkenes	1610–1680	Variable
C=C	Aromatic rings	1500–1600	Variable
C=C	Alkynes	2100–2260	Variable
C—N	Amines, amides	1180–1360	Strong
C=N	Nitriles	2210–2280	Strong
C—O	Alcohols, ethers, carboxylic acids, esters	1050–1300	Strong
C=O	Aldehydes, ketones, carboxylic acids, esters	1690–1760	Strong
NO <sub>2</sub>	Nitro compounds	1500–1570	Strong
NO <sub>2</sub>	Nitro compounds	1300–1370	Strong

Sumber: Skoog, D.A (1998: 460)

