

Mineral	O–H Absorption	Si–O Absorption	O–H Polarisation	Best Method	Approximation
OPX			$C > B \approx A$	$A + B + C$	$2 * A + C$ or $2 * B + C$
Diopside			$C > E > B \approx D > B' > \approx A$	$A + B + C$ or $B + D + E$	$2 * B + C$ or $2 * A + C$ or $2 * D + E$
High F Diopside			$B > D > C \approx A > > E$	$B + D + E$	Abs. 3600-3660 cm^{-1} $2 * \text{Abs}_{\text{max}} + \text{Abs}_{\text{min}}$
Augite			$E \approx B > D \approx A > C$	$A + B + C$ or $B + D + E$	Abs. 3600-3660 cm^{-1} $2 * \text{Abs}_{\text{max}} + \text{Abs}_{\text{min}}$
					Abs. 3350-3600 cm^{-1} $\text{Abs}_{\text{max}} + 2 * \text{Abs}_{\text{min}}$
Omphacite 1			$C > E > D \approx B > B' > \approx A$	$A + B + C$ or $B + D + E$	Abs. 3350-3600 cm^{-1} $\text{Abs}_{\text{max}} + 2 * \text{Abs}_{\text{min}}$
Omphacite 2			$E > C > D \approx B > B' > \approx A$	$A + B + C$ or $B + D + E$	Abs. 3600-3660 cm^{-1} $2 * \text{Abs}_{\text{max}} + \text{Abs}_{\text{min}}$
					Abs. 3350-3600 cm^{-1} $\text{Abs}_{\text{max}} + 2 * \text{Abs}_{\text{min}}$
Omphacite 3			$C > E > D \approx B > \approx B' \approx A$	$A + B + C$ or $B + D + E$	Abs. 3350-3600 cm^{-1} $\text{Abs}_{\text{max}} + 2 * \text{Abs}_{\text{min}}$

$$A = [a^*]_{(a^*-b)} \quad B = [b]_{(a^*-b)} \approx B' = [Y]_{(c-b)} \quad C = [c]_{(c-b)} \quad D = [X]_{(a-c)} \quad E = [Z]_{(a-c)}$$