
Appendix I:

Anion IR

Absorbance Table

Anion	Absorbance (cm ⁻¹)
BO ₂ ⁻	1300–1360
B ₄ O ₇	990–1000, 1340–1375
CO ₃	1425–1455
HCO ₃ ⁻	690–710, 830–840, 990–1010
SCN ⁻	2020–2100
SiO ₃ ⁻²	950–1010
NO ₂ ⁻	1225–1250
NO ₃ ⁻	1340–1390
NH ₄ ⁺	1390–1440
PO ₄ ⁻³	1000–1040
HPO ₄ ⁻²	1010–1060, 840–900
H ₂ PO ₄ ⁻	1025–1090, 900–950
SO ₃ ⁻²	920–980
SO ₄ ⁻²	1075–1130
HSO ₄ ⁻	845–855, 1030–1070, 1160–1175
S ₂ O ₃ ⁻²	950–1000, 1100–1120
S ₂ O ₅ ⁻²	975–990, 1175–1190
S ₂ O ₈ ⁻²	700–710, 1050–1075, 1275–1300
ClO ₃ ⁻	940–970
ClO ₄ ⁻	1050–1120
BrO ₃ ⁻	795–805
IO ₃ ⁻	725–750
Cr ₂ O ₇ ⁻²	795–860, 860–875
Cr ₂ O ₇ ⁻²	725–775, 845–890
WO ₄ ⁻²	790–825
MnO ₄ ⁻	890–915
CN ⁻	2077–2100
OCN ⁻	2100–2180