

Chemical Structure and UV-VIS Absorbance

Bond or Functional Group	Absorption Max (nm)
Alkene	171
Alkyne	180
Ether	185
Ketone	190
Oxime	190
Amine	195
Aldehyde	210
Nitro	210
Nitrite	225
Nitrate	270
Carbonyl	180, 290
Benzene Ring	184, 255
Naphthalene Ring	220, 286

Solvent	UV Cutoff (nm)
Acetonitrile	190
Hexane	195
Cyclohexane	202
2-Propanol	205
Isooctane	205
Methanol	205
THF	210
Ethyl Ether	218
Methylene Chloride	233
Ethyl Acetate	255
DMSO	262
Toluene	285
Acetone	330
Water	N/A