

Supporting Information

Infrared spectroscopic data (recorded in KBr disks) for the α , γ , δ and ϵ polymorphs of ODH.

Polymorph	ν / cm^{-1}
α	3284 s, 3176 broad s/m, 3005 m, 2794 m/w, 1677 s, 1611 s/m, 1533 m, 1358 m/w, 1273 s, 1099 s, 996 m, 794 s
γ	3276 s, 3186 s/m, 3025 m, 2784 w, 1649 s, 1609 s, 1503 s, 1428 m/w, 1337 w, 1317 w, 1252 s/m, 1172 m/w, 1117 s/m, 1021 m/w, 961 m, 946 m, 835 m/w, 820 s/m, 745 s/m, 705 m/w
δ	3286 s, 3180 m/w, 3038 w, 2804 w, 1650 s, 1584 s, 1534 s/m, 1419 w, 1322 w, 1293 w, 1257 s/m, 1125 s/m, 958 s/m, 829 m, 732 s/m
ϵ	3297 s, 3186 broad s/m, 3005 m, 2794 m/w, 1679 s, 1614 s, 1533 s, 1307 m, 1272 s/m, 1132 s, 971 s, 836 m/w, 810 s