

Table S1. Pressure dependence ($d\nu/dP$, $\text{cm}^{-1}\cdot\text{GPa}^{-1}$) of IR modes of ZIF-8 on compression

Mode	Frequency (cm^{-1})	0-1.6 GPa	1.6-12.8 GPa
1	684	0.72	0.47
2	693	2.89	
3	758	2.40	2.32
4	953	-2.57	0.79
5	995	-1.00	0.95
6	1146	-3.34	1.98
7	1180	-0.02	2.48
8	1310	1.23	2.27
9	1584	-4.42	1.27