**ANSWERS: Additional questions on bond dipoles and polar of molecules**

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|  | **bond dipoles present within the molecule?** |
| **HF** | **yes** |
| **H2** | **no** |
| **HBr** | **yes** |
| **O2** | **no** |
| **C = O** | **yes** |

|  |  |  |
| --- | --- | --- |
| **CS2**  non-polar | **N2**  non-polar | **CH3OH**  polar |
| **HCN**  polar | **PCl3**  polar | **O2**  non-polar |
| **CH3COCH3**  http://s3.amazonaws.com/readers/2010/12/14/acetonestructural_1.png  polar | **CH4**  non-polar | **C2H4**  non-polar |
| **PH3**  polar | **SF2**  polar | O3    polar |

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