# Physical Properties of Aldehydes and Ketones.

1. Plot a graph displaying the following data:

## Boiling points of different homologous series.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Number of C’s** | **Alkane (oC)** | **Aldehyde(oC)** | **Ketone(oC)** | **1o alcohol(oC)** |
| 1 | -164 | -19 |  | 65 |
| 2 | -89 | 20 |  | 80 |
| 3 | -42 | 46 | 56 | 97 |
| 4 | -1 | 75 | 80 | 118 |
| 5 | 36 | 102 | 102 | 137 |

1. Why is no data in the 1C and 2C columns for the ketones?
2. Using you knowledge/understanding of intermolecular forces, explain your graph.

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