

Answer on Question #49295 – Chemistry – Physical Chemistry

Question:

The van der Waals constant "a" is a constant factor to a ideal gas law for the intermolecular attraction within a substance. List 1 contains the substances and list 2 contains value of "a"(L²atm/mol²)

- | List 1. | List 2 |
|--|-----------|
| • (1)C ₆ H ₆ . | (a).217 |
| • (2)C ₆ H ₅ CH ₃ | (b)5.46 |
| • (3)Ne | (c)18.00 |
| • (4)H ₂ O. | (d)24.060 |

Which one of the following combinations represents the correct matching of, the substance with the corresponding "a" value?

- (1)a-1d-2c-3b-4
- (2)c-1d-2a-3b-4
- (3)d-1a-2b-3c-4
- (4)b-1c-2a-3d-4.

Answer: (2) c-1 d-2 a-3 b-4

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