Bond Polarity

Apprentice Difficulty Level Question Group 1

Question 1

Consider the N-N bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question 2

Consider the C-C bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question 3

Consider the O-O bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question Group 2

Question 4

Consider the C-CI bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question 5

Consider the C-N bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question 6

Consider the C-S bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question Group 3

Question 7

Consider the F-Cl bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question 8

Consider the N-CI bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question 9

Consider the P-CI bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Master Difficulty Level Question Group 4 Question 10

Consider the C-S bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question 11

Consider the N-CI bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question 12

Consider the P-H bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question Group 5 Question 13

Consider the O-F bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question 14

Consider the N-F bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question 15

Consider the I-F bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question Group 6 Question 16

Consider the C-O bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question 17

Consider the S-O bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question 18

Consider the I-CI bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Wizard Difficulty Level Question Group 7 Question 19

Consider the Se-H bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question 20

Consider the Ge-H bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question 21

Consider the Si-H bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question Group 8

Question 22

Consider the C-H bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question 23

Consider the C-Br bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question 24

Consider the C-P bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question Group 9

Question 25

Consider the N-I bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question 26

Consider the S-F bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.

Question 27

Consider the Se-Cl bond. Classify it as being either polar or non-polar. If polar, identify the direction of the dipole moment.