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Hydrogen transfer and quinone/hydroquinone transitions in graphene-based materials

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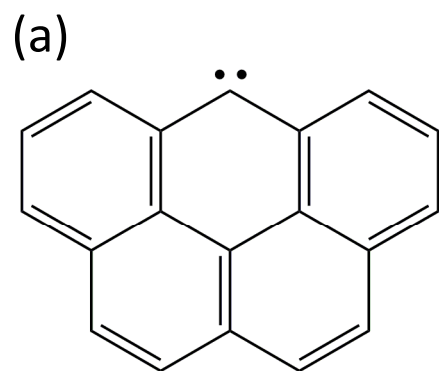
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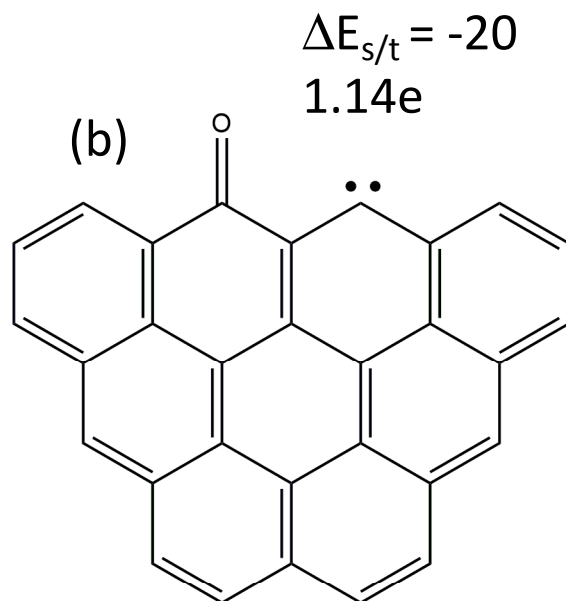
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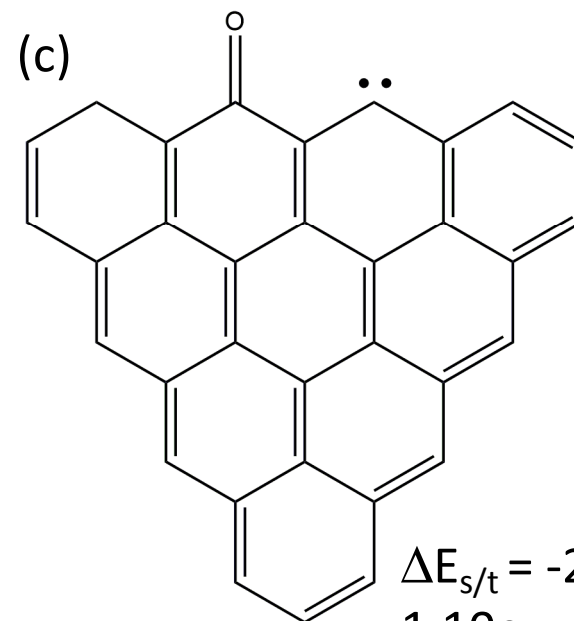
$$\Delta E_{s/t} = -6.7$$

$$1.36e$$



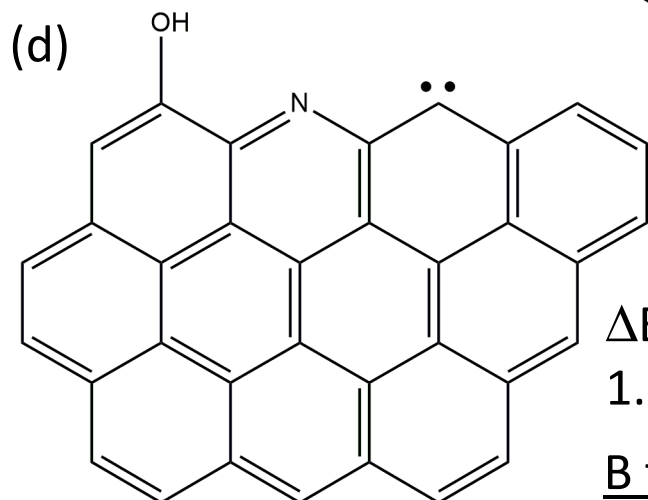
$$\Delta E_{s/t} = -20$$

$$1.14e$$



$$\Delta E_{s/t} = -22$$

$$1.10e$$



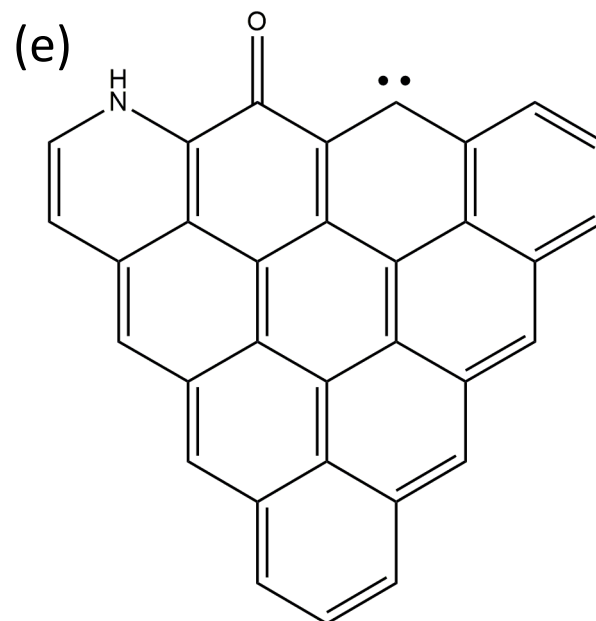
$$\Delta E_{s/t} = -13$$

$$1.35e$$

B for N:

$$\Delta E_{s/t} = -1.5$$

$$1.31e$$



$$\Delta E_{s/t} = -0.2$$

$$-0.05e$$

B for N:

$$\Delta E_{s/t} = -24$$

$$1.09e$$

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