

# Affinities exercises

Stress Pattern	Number of Syllables	Primary Stress
af FI ni ties	4	second

## A(g) + e<sup>-</sup> > A<sup>-</sup>(g)

	eV	kJ/mol
Carbon	1.26	121.85
Oxygen	1.46	140.98
Fluorine	3.40	328.16
Chlorine	3.61	348.57

[Lange's Handbook of Chemistry (15th Edition) p 4.24. McGraw-Hill.]  
<http://www.knovel.com/knovel2/Toc.jsp?BookID=47&VerticalID=0>

## Suggested exercises

1. When do we use electron affinities?



F

## Useful words

*Suggestions needed here!*



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2. Explain to a student that high affinity binding in solution means a low dissociation constant.



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3. Give examples of molecules that bind to DNA with high affinity.



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K<sub>d</sub> (dissociation constant)

K<sub>b</sub> (binding constant)

ethidium bromide

regulatory proteins



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