

Lecture 13 CH131 Summer 1 2019	Copyright © 2019 Dan Dill dan@bu.edu	Lecture 13 CH131 Summer 1 2019	Copyright © 2019 Dan Dill dan@bu.edu
		Atomic or molecul	ar oxygen?
Effect of temperature	on spontaneity	• $\Delta H_{\rm f}(0, g) = 249.2 \text{ kJ/mol}$ • $S^{\circ}(0, g) = 161.1 \text{ J/(K mol)}$ • $S^{\circ}(0_2, g) = 205.0 \text{ J/(K mol)}$ How to proceed? At 300 K, ΔH $\Delta G = 2 \times 249.2 - 300 \text{ K} \times 100 \text{ K}$	
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