

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	At what temperature will oxy • $\Delta H_f(0, g) = 249.2 \text{ kJ/mol}$ • $S^o(0, g) = 161.1 \text{ J/(K mol)}$ • $S^o(0_2, g) = 205.0 \text{ J/(K mol)}$ How to proceed? At 300 K, ΔH $\Delta G = 2 \times 249.2 - 300 \text{ K} \times \text{Since} > 0$, not spontaneous	rgen spontaneously decompose, 0 ₂ (g) → 2 0(g)? $ \begin{array}{c} & & & \\ $
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