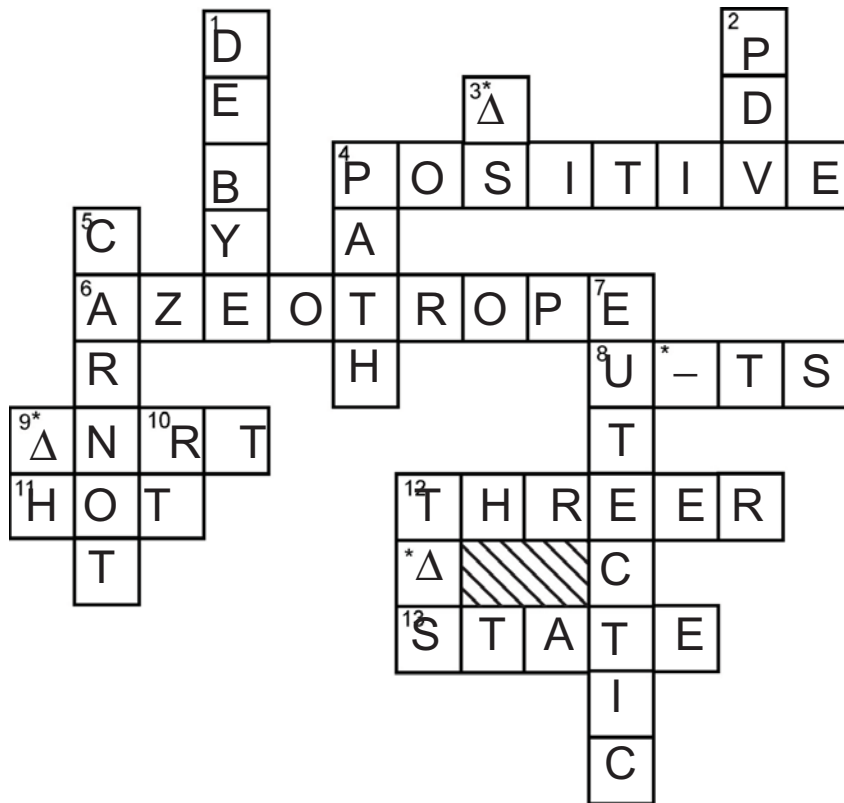


# thermodynamic crossword

Fill in this thermodynamic crossword. The boxes marked with \* are mathematical symbols; all other entries are letters.



ACROSS		DOWN	
4.	If a reaction is endothermic $\Delta H$ is _____.	1.	One name associated with the theory for calculation of activity coefficients of electrolytes
6.	Constant boiling liquid solution	2.	Work of expansion done on surroundings
8.	(Helmholtz free energy) $A \equiv$ _____	3.	Change in order-disorder
9.	For isothermal reaction involving only ideal gasses $\Delta H = \Delta U +$ _____	4.	$\int_{initial}^{final} dG$ is independent of _____.
11.	In an adiabatic compression an ideal gas will become _____.	5.	Famous French cyclist and efficiency expert
12.	One mole of monatomic ideal gas is heated from 100K to 738.9056099K at constant volume. What is $\Delta S$ ?	7.	Constant melting solid mixture
13.	If $dA$ is an exact differential then $A$ is a _____ function	9.	$q$ at constant pressure
		10.	For any gas $\lim_{\substack{n \rightarrow 0 \\ p \rightarrow 0}} \left( \frac{pV}{n} \right)$
		12.	$q_{rev}$ for constant T