Table III: Thermodynamic Parameters for Burying a Solvent-Accessible Phenyl Group[a]

method	ΔG	ΔH	ΔS	ΔC_p
V_L-Y92[b]	−1.6	−2.4	−2.8	−140
V_H-Y100a[c]	−4.3	−2.1	+7.0	−130
solid[d]	−1.1	−1.6	+0.5	−31
liquid[e]	−3.9	−0.5	+13	−53

[a] Units of ΔG and ΔH are kcal mol^{-1}; ΔS and ΔC_p are in cal mol^{-1} K^{-1}. [b] Observed difference in antigen binding thermodynamics between V_L-Y92F and V_L-Y92A mutants. [c] Observed difference in antigen binding thermodynamics between V_H-Y100aF and V_H-Y100aA mutants. For the ΔG calculation the binding constant obtained for V_H-Y100aA from calorimetry was used. [d] Calculated from thermodynamic data on the dissolution of solid compounds in water (Murphy & Gill, 1991). [e] Calculated from thermodynamic data on the transfer of liquid hydrocarbons to water (Gill et al., 1976).