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Marginal entropy of Y is 1/2 + 1/2 + 3/8 + 3/8 = 7/4 bits. (c) Joint Entropy: sum of −plogp over all 16 probabilities in the joint distribution (of which only 4 different non-zero values appear, with the following frequencies): (1)(2/4) + (2)(3/8) + (6)(4/16) + (4)(5/32) = 1/2 + 3/4 + 3/2 + 5/8 = 27/8 bits.

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The entropy of a reaction

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