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$$c_p(T) = a + bT + cT^2 + dT^3$$

$$h(T) = aT + \frac{1}{2}bT^2 + \frac{1}{3}cT^3 + \frac{1}{4}dT^4$$

$$s(T, p) = a \ln T + bT + \frac{1}{2}cT^2 + \frac{1}{3}dT^3 - R \ln p$$

of various substances. 624

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$$c_p(T) = a + bT^{1/4} + cT^{1/2} + dT^{3/4}$$

$$h(T) = aT + \frac{4}{5}bT^{5/4} + \frac{2}{3}cT^{3/2} + \frac{4}{7}dT^{7/4}$$

$$s(T, p) = a \ln T + 4bT^{1/4} + 2cT^{1/2} + \frac{4}{3}dT^{3/4} - R \ln p$$

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