The boundary equation $h''_{2c3b}(s)$ has the following dimensionless form:

$$\frac{h''_{2c3b}(s)}{h^*} = \eta''(\sigma) = \left[\sum_{i=1}^{16} n_i(\sigma - 1.02)^{I_i}(\sigma - 0.726)^{J_i}\right]^4, \tag{2.43}$$

where $\eta = h/h^*$ and $\sigma = s/s^*$ with $h^* = 2800$ kJ kg^{-1} and $s^* = 5.9$ kJ kg^{-1} K^{-1}. The coefficients n_i and exponents I_i and J_i of Eq. (2.43) are listed in Table 2.71.

The equation $h''_{2ab}(s)$, Eq. (2.42), exactly meets the enthalpy value $h''(273.15\ \text{K}) = h_2(p_s(273.15\ \text{K}), 273.15\ \text{K}) = 2.500\,892\,618\times10^3$ kJ kg^{-1} that was calculated from the basic equation $g_2(p,T)$, Eq. (2.6), where $p = p_s(T)$ is obtained from Eq. (2.13). The equation $h''_{2c3b}(s)$, Eq. (2.43), yields exactly the enthalpy value at the critical point $h_c = 2.087\,546\,845\times10^3$ kJ kg^{-1} that was calculated from the basic equation $f_3(\rho,T)$, Eq. (2.11), for $\rho = \rho_c = 322$ kg m^{-3} and $T = T_c = 647.096$ K according to Eqs. (1.6) and (1.4).

Table 2.70 Coefficients and exponents of the boundary equation $h''_{2ab}(s)$ in its dimensionless form, Eq. (2.42)

i	I_i	J_i	n_i	i	I_i	J_i	n_i
1	1	8	$-0.524\,581\,170\,928\,788\times10^3$	16	28	8	$0.660\,788\,766\,938\,091\times10^{16}$
2	1	24	$-0.926\,947\,218\,142\,218\times10^7$	17	28	12	$0.166\,320\,055\,886\,021\times10^{23}$
3	2	4	$-0.237\,385\,107\,491\,666\times10^3$	18	28	20	$-0.218\,003\,784\,381\,501\times10^{30}$
4	2	32	$0.210\,770\,155\,812\,776\times10^{11}$	19	28	22	$-0.787\,276\,140\,295\,618\times10^{30}$
5	4	1	$-0.239\,494\,562\,010\,986\times10^2$	20	28	24	$0.151\,062\,329\,700\,346\times10^{32}$
6	4	2	$0.221\,802\,480\,294\,197\times10^3$	21	32	2	$0.795\,732\,170\,300\,541\times10^7$
7	7	7	$-0.510\,472\,533\,393\,438\times10^7$	22	32	7	$0.131\,957\,647\,355\,347\times10^{16}$
8	8	5	$0.124\,981\,396\,109\,147\times10^7$	23	32	12	$-0.325\,097\,068\,299\,140\times10^{24}$
9	8	12	$0.200\,008\,436\,996\,201\times10^{10}$	24	32	14	$-0.418\,600\,611\,419\,248\times10^{26}$
10	10	1	$-0.815\,158\,509\,791\,035\times10^3$	25	32	24	$0.297\,478\,906\,557\,467\times10^{35}$
11	12	0	$-0.157\,612\,685\,637\,523\times10^3$	26	36	10	$-0.953\,588\,761\,745\,473\times10^{20}$
12	12	7	$-0.114\,200\,422\,332\,791\times10^{11}$	27	36	12	$0.166\,957\,699\,620\,939\times10^{25}$
13	18	10	$0.662\,364\,680\,776\,872\times10^{16}$	28	36	20	$-0.175\,407\,764\,869\,978\times10^{33}$
14	20	12	$-0.227\,622\,818\,296\,144\times10^{19}$	29	36	22	$0.347\,581\,490\,626\,396\times10^{35}$
15	24	32	$-0.171\,048\,081\,348\,406\times10^{32}$	30	36	28	$-0.710\,971\,318\,427\,851\times10^{39}$

Table 2.71 Coefficients and exponents of the boundary equation $h''_{2c3b}(s)$ in its dimensionless form, Eq. (2.43)

i	I_i	J_i	n_i	i	I_i	J_i	n_i
1	0	0	$0.104\,351\,280\,732\,769\times10^1$	9	8	2	$0.743\,957\,464\,645\,363\times10^4$
2	0	3	$-0.227\,807\,912\,708\,513\times10^1$	10	8	20	$-0.356\,896\,445\,355\,761\times10^{20}$
3	0	4	$0.180\,535\,256\,723\,202\times10^1$	11	12	32	$0.167\,590\,585\,186\,801\times10^{32}$
4	1	0	0.420 440 834 792 042	12	16	36	$-0.355\,028\,625\,419\,105\times10^{38}$
5	1	12	$-0.105\,721\,244\,834\,660\times10^6$	13	22	2	$0.396\,611\,982\,166\,538\times10^{12}$
6	5	36	$0.436\,911\,607\,493\,884\times10^{25}$	14	22	32	$-0.414\,716\,268\,484\,468\times10^{41}$
7	6	12	$-0.328\,032\,702\,839\,753\times10^{12}$	15	24	7	$0.359\,080\,103\,867\,382\times10^{19}$
8	7	16	$-0.678\,686\,760\,804\,270\times10^{16}$	16	36	20	$-0.116\,994\,334\,851\,995\times10^{41}$