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Erratum

Erratum to "Prediction of halocarbon liquid densities by a modified hard sphere–De Santis equation of state" [Fluid Phase Equilibria 118 (1996) 103–114; 115–119]

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This is a correction note to the papers entitled ''Prediction of halocarbon liquid densities by a modified hard sphere–De Santis equation of state'' (Fialho and Nieto de Castro, 1996a), and ''Prediction of liquid densities for halocarbon mixtures by a modified hard sphere–De Santis equation of state'' (Fialho and Nieto de Castro, 1996b).

Recently we found some printing mistakes that are important to correct in order to allow others to take advantage of the described technique and use the proposed equations.

The mistakes are the following ones:

(1) The missing units in Table 3 of Fialho and Nieto de Castro (1996a).

Parameters for Eqs. (3) and (4)

	$a_0 \times 10^{-4}$ (J m^3 mol^{-2})	$a_1 \times 10^{-1}$ (J m^3 mol K^{-1})	$a_2 \times 10^2$ (J m^3 mol^{-2} K^{-2})	$b_0 \times 10^4$ (m^3 mol^{-1})	$b_1 \times 10^7$ (m^{3}mol^{-1} K^{-1})	$b_2 \times 10^{10}$ (m^3 mol^{-1} K^{-2})	σ (p_e)
R114	2.234954	−8.721153	7.932981	5.921175	−1.237742	3.156901	0.024
R123	2.386772	−8.725431	7.487230	5.471463	−0.344884	0.769728	0.077
R142b	1.347903	−5.227032	4.622546	4.804615	−3.553399	6.765317	0.041
R152a	0.811270	−3.126128	2.525539	−0.738200	23.742769	−34.308257	0.051
R22	0.621782	−2.222513	1.335290	2.794842	1.641533	−0.914907	0.027

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(2) The scale of the y axis of the graphs in Figs. 2 and 3 of Fialho and Nieto de Castro (1996a)

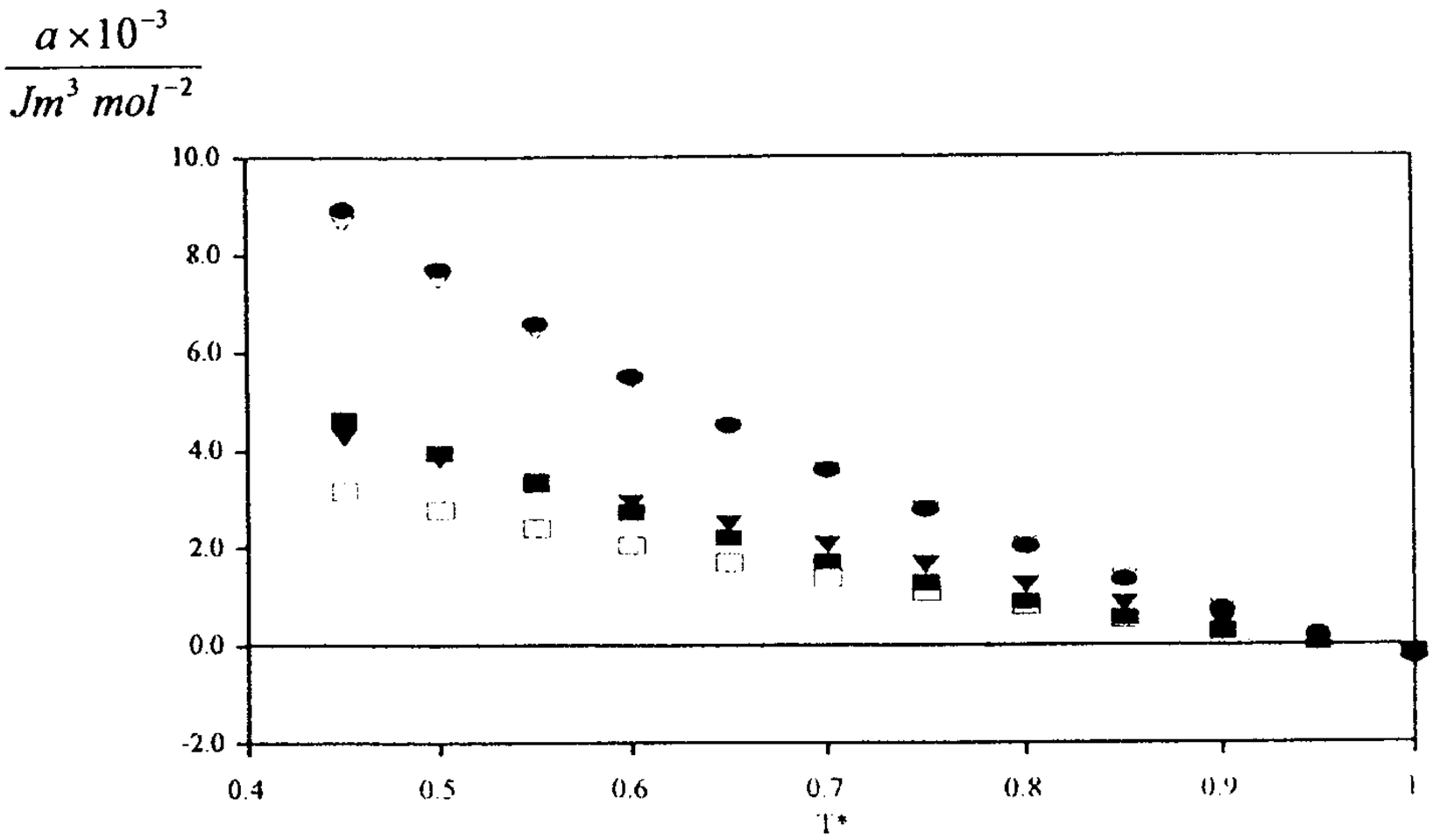

Fig. 2. Behaviour of $a(T)$ for several refrigerants (■) R152a; (□) R22; (▼) R142b; (▽) R123; (●) R114.

(3) The sign of the slope and the dependence on the relative molecular mass in Eq. (8) of Fialho and Nieto de Castro (1996a) and Eq. (3) of Fialho and Nieto de Castro (1996b).

$$b^* = (2.0335 - 0.01039\,\mathrm{M}^{-1}) \pm 0.0044 \qquad (8)\ \text{or}\ (3)$$

(4) The missing units of the constants in Table 5 of Fialho and Nieto de Castro (1996a) and Table 2 of Fialho and Nieto de Castro (1996b).

Parameters used in Eq. (9)

a_{ij}^*	$i = 0$	$i = 1$ (mol kg^{-1})	$i = 2$ (mol^2 kg^{-2})
$j = 0$	2.069249×10^5	-2.332869×10^6	9.949903×10^6
$j = 1$	-4.245370×10^5	5.268112×10^6	-2.222515×10^7
$j = 2$	2.194730×10^5	-2.991949×10^6	1.251112×10^7

References

P.S. Fialho and C.A. Nieto de Castro, Prediction of halocarbon liquid densities by a modified hard sphere–De Santis equation of state. Fluid Phase Equil., 118 (1996a) 103–114.

P.S. Fialho and C.A. Nieto de Castro, Prediction of liquid densities for halocarbon mixtures by a modified hard sphere–De Santis equation of state. Fluid Phase Equil., 118 (1996b) 115–119.