

## Erratum

### Analysis of $PVT_x$ Measurements for Binary Mixtures of R115 and R114

N. Yada, M. Uematsu, and K. Watanabe

International Journal of Thermophysics, Vol. 10, No. 3, pp. 639–647 (1989)

The following are the corrections to the above-cited paper made by the authors upon finding mistakes in the computer processing of the measured data.

p. 639, lines 2 and 3 (abstract) should read “149 to 1313  $\text{kg} \cdot \text{m}^{-3}$ ” (instead of “153 to 1387  $\text{kg} \cdot \text{m}^{-3}$ ”).

p. 640, line 10 should read “149 to 1313  $\text{kg} \cdot \text{m}^{-3}$ ” (instead of “153 to 1387  $\text{kg} \cdot \text{m}^{-3}$ ”).

p. 644, line 2 below Eq. (1) should read “ $P_c = 3.120 \text{ MPa}$ ” (instead of “ $P_c = 3.118 \text{ MPa}$ ”).

The corrected versions of Tables I, II, and III are reproduced below in their entireties.

Table I. Range and Number of Measurements

Composition of R115	Temperature range (K)	Pressure range (MPa)	Density range ( $\text{kg} \cdot \text{m}^{-3}$ )	Isochores	Data points
100 wt %	296–443	0.8–9.6	235–1176	13	186
75 wt % (76.8 mol %)	303–443	0.8–9.8	265–1199	10	144
50 wt % (52.5 mol %)	302–443	0.6–9.3	149–1313	8	124
25 wt % (26.9 mol %)	302–443	0.4–9.8	154–1204	10	143
Total	296–413	0.4–9.8	149–1313	41	597

Table II. Determined Critical Points

Composition	$\rho_c$ (kg · m <sup>-3</sup> )	$T_c$ (K)	$P_c$ (MPa)
100 wt % R115 [9]	604 ± 3	352.945 ± 0.010	3.120 ± 0.005
75 wt % R115	592 ± 5	369.2 ± 1.8	3.28 ± 0.15
50 wt % R115	585 ± 5	387.07 ± 0.05	3.43 ± 0.10
25 wt % R115	577 ± 5	403.71 ± 0.05	3.44 ± 0.15
0 wt % R115 [14]	576 ± 3	418.78 ± 0.02	3.256 ± 0.001

Table III. Determined Dew and Bubble Points<sup>a</sup>

	$\rho$ (kg · m <sup>-3</sup> )	$T$ (K)	$P$ (MPa)
75 wt % R115			
Bubble point	1197.5	326.3	1.45
Bubble point	1032.7	350.1	2.36
Bubble point	951.8	358.1	2.75
Bubble point	798.8	366.0	3.15
Bubble point	634.4	370.3	3.35
Dew point	526.5	371.7	3.34
Dew point	419.1	372.1	3.30
Dew point	333.8	367.6	2.92
Dew point	265.7	364.4	2.72
50 wt % R115			
Bubble point	1312.4	315.2	0.93
Bubble point	1042.5	363.4	2.38
Bubble point	*944.9	373.1	2.82
Bubble point	*752.0	383.5	3.24
Bubble point	*598.5	387.0	3.43
Dew point	*551.6	387.7	3.42
Dew point	235.2	375.5	2.55
Dew point	149.2	361.7	1.86
25 wt % R115			
Bubble point	1201.4	352.3	1.43
Bubble point	1106.3	369.5	1.98
Bubble point	*954.8	388.2	2.73
Bubble point	*879.7	394.4	2.98
Bubble point	*700.0	401.6	3.38
Dew point	*557.3	404.5	3.43
Dew point	314.3	398.7	2.98
Dew point	199.4	385.4	2.30
Dew point	154.6	376.7	1.92

<sup>a</sup> Data given with an asterisk are from Ref. 13.