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Errata

Vincenzo Piacente, Daniela Ferro and Giuseppe Della Gata, Vaporization enthalpies of five odd-numbered (C_7 to C_{15}) α,ω-alkanediols (*Thermochim. Acta*, 232 (1994) 317–321).

There were several errors on page 319. The corrected version of this page is produced overleaf.

TABLE 2

Comparison between experimental and calculated molar vaporization enthalpies at 298 K for even- and odd-numbered C_6 to C_{16} α,ω-alkanediols

Number n of C atoms	T_{av}/K	$\Delta_{vap}H^{\circ}_m(T_{av})$/kJ mol^{-1} [a]	$\Delta_{vap}H^{\circ}_m$(298 K)/kJ mol^{-1}					
			Experimental		Calculated			
			Our work [c]	Ref. 3	Ref. 11	Ref. 12	Ref. 13	Ref. 15
6	341	87.0 ± 2.0 [b]	91 ± 3	89.8 ± 0.7 [d]	87.4	89.5	87.0	90.5
7	341	92.4 ± 1.5	97 ± 2	96.6 ± 0.6	92.4	94.5	91.7	95.6
8	356	101.1 ± 1.6 [b]	108 ± 3	103.2 ± 1.1 [d]	97.3	99.6	96.3	100.7
9	360	104.4 ± 3.4	112 ± 4	112.3 ± 1.3 [d]	102.3	104.6	101.0	105.8
10	364	112.4 ± 2.3 [b]	120 ± 3	114.1 ± 1.2 [d]	107.3	109.7	105.7	110.9
11	365	123.0 ± 1.9	131 ± 3		112.3	114.7	110.4	116.0
12	379	119.4 ± 2.7 [b]	132 ± 4		117.2	119.8	115.1	121.1
13	372	122.0 ± 3.8	132 ± 4		122.2	124.9	119.8	126.2
14	386	128.1 ± 2.9 [b]	141 ± 4		127.2	129.9	124.5	131.3
15	390	124.3 ± 1.9	138 ± 3		132.2	135.0	129.2	136.4
16	398	130.5 ± 1.8 [b]	146 ± 3		137.2	140.0	133.9	141.5

[a] The errors are standard deviations. [b] From our previous work [2]. [c] The errors are estimated. [d] Derived from $\Delta_{sub}H^{\circ}_m$(298 K) and $\Delta_{fus}H^{\circ}_m(T_{fus})$ also reported in ref. 3.

the following equations were derived:

for 1,7-heptanediol

$$\log(p/\text{kPa}) = 11.89 \pm 0.20 - (4826 \pm 80)/(T/\text{K})$$

for 1,9-nonanediol

$$\log(p/\text{kPa}) = 13.22 \pm 0.30 - (5453 \pm 180)/(T/\text{K})$$

for 1,11-undecanediol

$$\log(p/\text{kPa}) = 15.33 \pm 0.30 - (6425 \pm 100)/(T/\text{K})$$

for 1,13-tridecanediol

$$\log(p/\text{kPa}) = 14.53 \pm 0.20 - (6375 \pm 200)/(T/\text{K})$$

for 1,15-pentadecanediol

$$\log(p/\text{kPa}) = 14.27 \pm 0.20 - (6492 \pm 100)/(T/\text{K})$$

The associated uncertainties represent estimated errors. Comparison can only be made with the vapour pressures of 1,7-heptanediol and 1,9-nonanediol measured by Knauth and Sabbah at 323 K [3]. Our average values at this temperature (8.89×10^{-4} and 2.18×10^{-4} kPa, respectively) are about twice as high as theirs (4.61×10^{-4} and 1.12×10^{-4} kPa, respectively [3]).