Erratum: Thermodynamic Properties of Ammonia

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Errata

Erratum: Thermodynamic Properties of Ammonia


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Appendix A:

1. Column headed “Free energy, $G/RT$.” Entries should be increased by $0.572 + \ln T$.
2. Columns headed “Isothermal compressibility.” Values tabulated refer to the units “reciprocal atmospheres.”
   To obtain values in units of “reciprocal bars” the entries should be multiplied by $1/1.01325$.
3. Column headed “$(dP/dT)_\rho$.” The correct column heading should be “$dP/dT$.” Values tabulated refer to units “atm/K.” To obtain values in units of “bar/K” the tabulated values should be multiplied by $1.01325$.

Appendix B:

1. Column headed “Isothermal compression.” The heading should read “Isothermal Compressibility.” The entries refer to units “reciprocal atmospheres.” To obtain values in units of “reciprocal bars” the entries should be multiplied by $1/1.01325$.
2. The tabulated values on the row referring to $P = 100$ bar and $T = 400$ K (p. 749) should be replaced by:

   $400 \ 8.9767 \ 11140 \ 8.8470 \ 387.59 \ 297.82 \ 15.7674 \ 2.9991 \ 0.0317$

Text:

1. P. 652, following eq (15). The defining relation for $A$ should be:

   $$A = \left(1 + \rho \frac{\partial Q}{\partial \rho} - \rho_T \frac{\partial Q}{\partial T} - \rho_T \frac{\partial^2 Q}{\partial T \partial \rho}\right)^2.$$

2. P. 661, following eq (8a). The defining relation for $\alpha$ should be:

   $$\alpha = A,$$

   where $A$ is defined in item 1, immediately above.