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- ¹ Fowler and Guggenheim, *Statistical Thermodynamics* (Cambridge, 1939).
- ² Robin and Vodar, *J. Physique Rad.*, 1952, **13**, 264.
- ³ Braune and Strassmann, *Z. physik. Chem.*, 1929, **143**, 225.
- ⁴ Guggenheim and McGlashan, *Proc. Roy. Soc. A*, 1951, **206**, 448.
- ⁵ Fox and Lambert, *Proc. Roy. Soc. A*, 1951, **210**, 557.
- ⁶ Bird, Spatz and Hirschfelder, *J. Chem. Physics*, 1950, **18**, 1395; and private communication.
- ⁷ Meissner and Redding, *Ind. Eng. Chem.*, 1942, **34**, 524.
- ⁸ Webster, *Proc. Roy. Soc. A*, 1952, **214**, 61.
- ⁹ Diepen and Scheffer, *J. Amer. Chem. Soc.*, 1948, **70**, 4085.
- ¹⁰ van Gunst, *Thesis* (Delft, 1950).
- ¹¹ Ewald, *Thesis* (Manchester, 1952), to be published.
- ¹² Robin, *J. Chim. Physique*, 1951, **48**, 415, 501.