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surface excess entropy

Defined by:

$$S^{\sigma} = S - S^{\alpha} - S^{\beta} = S - V^{\alpha}\,\frac{S^{\alpha}_{\mathrm{m}}}{V^{\alpha}_{\mathrm{m}}} - V^{\beta}\,\frac{S^{\beta}_{\mathrm{m}}}{V^{\beta}_{\mathrm{m}}}$$

$(\frac{S^{\alpha}_{\mathrm{m}}}{V^{\alpha}_{\mathrm{m}}})$ and $(\frac{S^{\beta}_{\mathrm{m}}}{V^{\beta}_{\mathrm{m}}})$ are the entropy densities in the two bulk phases, where S^{α}_{m} and S^{β}_{m} are the mean molar entropies and V^{α}_{m} and V^{β}_{m} are the mean molar volumes of the two phases.

Source:
PAC, 1972, *31*, 577 *(Manual of Symbols and Terminology for Physicochemical Quantities and Units, Appendix II: Definitions, Terminology and Symbols in Colloid and Surface Chemistry)* on page 599

