

A NEW METHOD FOR THE DETERMINATION OF VAPOR DENSITIES.

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The principal on which this new modification of the Victor Meyer method consists, is the adding of an indifferent second substance to the one under the examination. The added substance is one which has a boiling point some 10-30° C. below the body whose vapor density is to be determined.

The effect, due to the addition of the second body, is the same as produced by a partial vacuum. Decomposition is, in many cases prevented, as the temperature required for the determination need in no case be above the boiling point of the body under examination. In many cases, the correct results can be obtained 10-20 degrees C. below the boiling points of the bodies examined.

Experiments were made with mixtures of :

Acetic acid and toluol.

Toluol and benzol.

Naphthalene and p-toluidine.

Diazobenzolimid and pseudocumol.

Nicotine and naphthalene.

Nicotine and p-toluidine.

Phenyldiazosulphide and naphthalene.

Phenyldiazosulphide and p-toluidine.

Chloral hydrate and benzol.

The observations were made at temperatures below and at the boiling points of the substances mentioned.

The results so far obtained are satisfactory, but as the experiments are still being continued, a detailed account will not appear until some future time.

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