

Contents

IV/20 Vapor Pressure of Chemicals

Subvolume C Vapor Pressure and Antoine Constants for Nitrogen Containing Organic Compounds

1	Introduction	1
1.1	Definitions	1
1.2	Measurement of Vapor Pressure and Boiling (or Sublimation) Point	2
1.2.1	Static Techniques	3
1.2.1.1	Direct Sealed Container	3
1.2.1.2	The Isoteniscope	3
1.2.1.3	The Inclined Piston Gage	3
1.2.2	Quasistatic Techniques	3
1.2.2.1	Ebulliometric Techniques	3
1.2.2.2	Transpiration Technique	4
1.2.3	Kinetic Methods	4
1.2.3.1	Knudsen Effusion Method	4
1.2.3.2	Langmuir Method	5
1.2.4	Measurement of Critical Constants	5
1.3	Mathematical Representation of Vapor Pressure	6
1.3.1	Thermodynamic Relationships	6
1.3.2	Empirical Vapor Pressure Equations	7
1.4	Description of the Tables	10
1.5	References for 1	12
2	Tabulated Data on Vapor Pressure of Nitrogen Containing Organic Compounds	14
	Some Inorganic Compounds	14
	Organic Compounds, C ₁ – C ₈₄	16
	Notes	123
	References	125
	Chemical Name Index	139
	Chemical Abstracts Service Registry Number (CASRN) Index	189