

TABLE I
Summary of Piezometric Data for Dichloroacetic Acid (*)

Exp.	T °C	Equil. (a) time hrs	Decomp. (b) time hrs	Pressure (c) range kg/cm ²	P (d) kg/cm ²	P ₀ (e) kg/cm/	ΔP (f) kg/cm ²	Fusion time min.	ΔV (g) cm ³ / g × 10 ⁻³	N ₂ (h) mole %
8	15.2	4	41	4860- 150	—	—	—	—	—	—
9	15.0	4	8	2455-1545	—	—	—	—	—	—
10	15.2	3	4	365- 300	—	—	—	—	—	—
11	15.2	4	12	285- 35	100	92.5	7.5	(260) (i)	(86)	0.35
12	30.1	3	23-1/2	1970- 265	695	680	15	235	79	0.6
13	30.5	5	9	975- 500	695	—	—	—	—	—
14	59.4	5	26	4960-1535	2200	2120	80	(135)	(46)	1.7
15	59.4	4	6-1/2	2790-2260	—	—	—	—	—	—
16	15.1	4	8-1/2	870- 320	—	—	—	—	—	—
17	45.0	16	30	4840-1070	1510	1400	110	—	—	—
18	45.0	4	13	2495-1225	1605	1480	125	—	—	—

(*) Original purity 99.8 mole percent [1]; weight of sample 11.9728 g.

(a) Time sample allowed to come to equilibrium at high pressure before decompressing.

(b) Time of continuous experimental decompression of sample.

(c) Pressure range of experiment.

(d) Observed pressure for solid-liquid transition.

(e) Approximate pressure, corrected for impurity in sample.

(f) Pressure difference when sample is one-half solid and all liquid.

(g) Volume change for transition of solid to liquid.

(h) Approximate impurity calculated from $(\Delta V_0/RT)\Delta P$

(i) Values in parentheses have larger uncertainties because of erratic pressure pattern.