

determining the binodal curve, tie-lines, and plait-point is described.

Antimony trisulphide, like the sulphide of arsenic, distributes between the two liquid phases in the system water-ether-alcohol, but not in the system water-chloroform-alcohol.

Copper sulphide does not distribute in the system water-ether-alcohol.

TABLE I
Binodal Curves, Room Temperature

Water cc	Chloro- form cc	Alcohol cc	Ether cc	Alcohol cc	Ethyl acetate cc	Alcohol cc
9.5	0.5	6.3	—	—	—	—
9	1	7.7	—	—	—	1.2
8	2	8.7	2	3.5	2	2.7
7	3	9.4	3	4.2	3	3.1
6	4	9.8	4	4.4	4	3.05
5	5	9.9	5	4.4	5	3.1
4	6	10.0	6	4.2	6	2.9
3	7	9.4	7	4.0	7	2.7
2	8	8.2	8	3.5	8	2.2
1	9	6.0	9	2.4	9	1.4

TABLE 2
Tie-Lines

Water, 6.5 cc; Chl., 3.5 cc			Water, 5 cc; Ether, 5 cc			Water, 5.5 cc; Et. acet., 4.5 cc		
Alcohol cc	Lower cc	Upper cc	Alcohol cc	Lower cc	Upper cc	Alcohol cc	Lower cc	Upper cc
8.4	8.5	9.7	2.0	6.6	5.0	2.5	6.7	5.6
9.0	9.0	9.7	2.5	6.8	5.2	3.0	6.9	5.9
9.4	9.7	9.4	3.5	7.6	5.3	—	—	—
—	—	—	4.0	8.3	5.0	—	—	—

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