

(a) Balance sheet for the entire process

Duration of the process - 27 November until 7 December 1988.

Acetone:

- initial stock	zero
- receipt	345.98 t
- end reserve	zero
- use	345.98 t

MIPA:

· initial stock	145.4 t
tank V-25 A	9.6 t
tank V-25 B	135.8 t
· final stock	401.7 t
tank V-25 A	151.3 t
tank V-25 B	203.8 t
tank V-18	24.5 t
tank V-19	22.1 t
· utilized	81.65 t
· production	337.95 t

Observations

I. The stoichiometric ratio Acetone/MIPA is 0.983; we could count on a production of 351.96 t of MIPA for a prompt utilization of 345.98 t of Acetone.

II. The difference between the esteguemetric ratio and the actual amount produced (351.96 - 337.95) = 14.01 t, a loss of 4 per cent, can be explained by the following waste points: