## ATTACHMENT XVI

## Estimated Production Cost for Ethylene from Ethane by Thermal Cracking in Tube Stills by the Hauber Method.

(I. G. Leuna report) June 11, 1941

This estimate is based on a crude ethane having the following composition:

 $C_2H_6 = 90.0 \text{ vol.\%}$   $C_3H_6 = 2.5 \text{ vol.\%}$   $C_3H_6 = 2.5 \text{ vol.\%}$   $C_3H_6 = 2.5 \text{ vol.\%}$ 

An ethylene yield of 81.3% (wt.) was assumed from the crude ethane (on the basis of analyses of crude gas and cracked gas) and a yield of 90.7% (wt.) from the recycled 97-98% ethane (estimated). Based on report No. 69 of Dr. Hänber and Dr. Hirschbeck of May 29, 1941 on the cracking of recycled 97.6% ethane, the yield of pure ethylene from recycled 100% ethane, without loss, would be 83.8% (wt.) and, including a 5% loss (as ethane) 79.8% (wt.). A table and two graphs give details of the estimate.