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TT-63-20470

Kapralova, G. A., Rusin, L. Yu., Chaikin, A. M.,  
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ELEMENTARY REACTIONS OF MOLECULAR  
FLUORINE. [1963] 5p (figs omitted) 10 refs  
Order from OTS, SLA, or ETC \$1.10 TT-63-20470

Trans. of Akademiya Nauk SSSR. Doklady, 1963,  
v. 150, no. 6, p. 1231-1234. (Abstract available)

DESCRIPTORS: \*Fluorine, Molecules, \*Heat of activa-  
tion, \*Reaction kinetics, \*Ethylenes, Chemical  
reactions

Investigations of fluorine reactions showed a relation-  
ship between activation energies and heat effect. Meas-  
urements of the surface magnitude of frozen trichloro-  
ethylene before its reaction with  $F_2$  indicated that the  
quantity of  $F_2$  molecules absorbable by the olefin at  
-196° is almost exactly equal to the quantity of trichloro-  
ethylene located on the surface. At temperatures from  
(Chemistry--Physical, TT, v. 11, no. 4) (over)

I. Kapralova, G. A.  
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Office of Technical Services

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