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DSIR/32796/CT

See memo for 5/1/57

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v. 135, no. 1, p. 45-47.

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61-22103

1. Single crystals--Growth
2. Metallic crystals--Growth
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CHEMICAL REACTIONS AT HIGH TEMPERATURES
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ATMOSPHERES. STUDY OF THE METHOD OF OXI-
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Trans. Akad. Nauk SSSR. Otdelenie Khimi-
cheskikh Nauk. Izvestiya, 1945, p. 359-363.

DESCRIPTORS: *Cyclohexenes, Oxidation, Chemical
reactions, Temperature, Pressure, *Oxygen, Labo-

61-18886

I. Vereshchagin, L. F.
II. Preobrazhenskii, V. A.
III. Title: Equipment...
IV. Title: Study...

hexene at different temperatures were carried out. The temperature at which freshly distilled cyclohexene explodes reaches 1500, and this temperature may be lower when the amount of the starting material is higher and it is left in contact with oxygen of the air for a long time. This phenomenon is apparently due to accumulation of peroxides accelerating the oxidation. (Author)

PB-

61-1888t

Vereshchagin, L. F., Zelinskii, N. D. and others.
CHEMICAL REACTIONS AT HIGH TEMPERATURES
AND HIGH PRESSURES. IV. EXPLOSIVE DECOMPO-
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DESCRIPTORS: *Cyclopentadiene, Pentadienes,
*Cyclohexadienes, Decomposition, *Explosions, Shock

61-18892

I. Vereshchagin, L. F.
II. Zelinskii, N. D.
III. Title: Explosive...

explosive decomposition of cyclopentadiene was studied. This effect was found to be due to thermal explosion resulting from the heat of dimerization. Decomposition of cyclopentadiene and cyclohexadiene under the action of a shock wave produced by a detonator with a capsule with 1.1 g tetryl was similar in character. The presence of the dimer in the cyclopentadiene monomer retards the explosive decomposition and requires an increase in the critical pressure. The pure dimer is incapable of undergoing an explosive decomposition even under very high pressure produced by a shock wave from a detonator. The explosive decomposition can be interrupted even after its initiation by a sudden drop in pressure below the critical value. This appears to be an example of interruption of a chain reaction by chance.

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