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AEC-Tr-5608

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A European Research Center for ~~XXXXXX~~ Radiation
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~~REUR~~ - Germany

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Feb 61

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Widmaier, O.
REACTION DECOMPOSITION OF TETRAETHYLLEAD
FUEL. [1963] [20p] 15 refs
Order from SLA \$1.60

63-18973

Trans. of Brennstoff-Chemie (West Germany) 1953,
v. 34 (no. 5/6) p. 83-87.

DESCRIPTORS: *Ethyl radicals, *Lead compounds,
*Gasoline, *Fuels, Decomposition, Hydrocarbons,
Antiknock, Combustion.

Autoclave experiments with a 10% ethyl fluid-gasoline
solution have shown that by use of a S-free gasoline,
lead bromide, lead oxide, lead triethyl bromide, and
oxidized hydrocarbons are formed as decomposition
products. The decomposition of ethyl fluid is highly
temperature-dependent. With temperatures up to
100°C and pressures from 20-60 kg./cm.² the main
(Materials--Fuels, TT. v. 10, no. 12) (over)

63-18973

1. Title: Tetraethyl lead
1. Widmaier, O.

6

Office of Technical Services

Widmaler, O.
INFLUENCE OF SULFUR COMPOUNDS UPON THE
KNOCK RATING AND RESIDUE FORMATION IN
LEADED FUELS. 28 Apr 47, 12p. (Sign. omitted)
4 refs.

Order from OTS or SLA \$1.60

63-14309

Trans. of mun. [Einfluss von Schwefelverbindungen
auf die Klopfintensität und Rückstandsabkühlung bei
Verbrennung Kraftstoffen] n. p., n. d., 7p. (78-24136).

DESCRIPTORS: *Fuels, *Lead, Sulfur compounds,
Knocking, Colloids, *Fuel additives.

In general the addition of tetraethyllead to fuels calls
forth a certain reaction, varying with the type of
fuel, which results in an increase in the knock rating.
This so-called lead sensitivity depends upon the com-
position of the fuel and upon its treatment. It is very
high for the so-called straight-run fuels and com-
(Materials--Fuels, TT, v. 10, no. 3) (over)

63-14309

I. Widmaler, O.
II. 78-24136

Office of Technical Services

Widmaier, O.

A MORE SIMPLIFIED RAPID METHOD FOR THE DETERMINATION OF TETRAETHYLLEAD IN AIRCRAFT ENGINE FUELS. 17 Feb 48, 8p. (Fig. omitted) 1 ref. Order from OTC or SLA \$1.10 63-10955

Trans. of mono. [Weiter Vereinfachtes Schnellverfahren zur Bestimmung des Bleitetraethylgehaltes in Flugmotorenkraftstoffen] n.p., 13 July 48 [13p.] (PB-36649).

DESCRIPTORS: *Aviation fuels, *Lead compounds, *Ethyl radicals, Quantitative analysis, Iodine, Alcohols, Solutions, Fuels.

The tetraethyllead content of aviation fuels has been determined in the past either gravimetrically as lead chromate and lead sulfate, or volumetrically by precipitation with excess potassium chromate and back titration of the excess. These methods yield good results, but

Materials - Fuels, TT, v. 10, no. 3) (over)

63-10955

- I. Widmaier, O.
- II. PB-36 649

Office of Technical Services

Widmaier, O.
REACTION DECOMPOSITION OF TETRAETHYLLEAD
FUEL. [1963] [20p] 15 refs
Order from SLA \$1.60

63-18973

Trans. of Brennstoff-Chemie (West Germany) 1953,
v. 34 [no. 5/6] p. 83-87.

DESCRIPTORS: *Ethyl radicals, *Lead compounds,
*Gasoline, *Fuels, Decomposition, Hydrocarbons,
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Autoclave experiments with a 10% ethyl fluid-gasoline
solution have shown that by use of a S-free gasoline,
lead bromide, lead oxide, lead triethyl bromide, and
oxidized hydrocarbons are formed as decomposition
products. The decomposition of ethyl fluid is highly
temperature-dependent. With temperatures up to
100°C and pressures from 20-60 kg./cm.² the main
(Materials-Puels, TT, v. 10, no. 12) (over)

63-18973

1. Title: Tetraethyl lead
1. Widmaier, O.

6

Office of Technical Services

product from ethyl fluid to lead oxide; at higher temperatures and different pressures the formation of $PbBr_2$ is favored. The lead triethyl bromide formed at low temperatures up to 100°C and high pressure (60 kg./cm. 2) has a favorable antirack action. (Author)

78.

63-14971

Wilmater, O.
INFLUENCE OF SULFUR COMPOUNDS UPON THE
KNOCK RATING AND RESIDUE FORMATION IN
LEADED FUELS. 28 Apr 47, 12p. (Sig. omitted)
4 refs.

Order from UTS or SLA \$1.60

63-14309

Trans. of A.S.M.E. [Einfluss von Schwefelverbindungen
auf die Klopfintensität und Rückstandsabbildung bei
Verbrennen Kraftstoffes] n. p., n. d., 7p. (PB-24136).

DESCRIPTIONS: *Paraffin, *Lead, Sulfur compounds,
Knocking, Catalysts, *Fuel additives.

63-14309

I. Wilmater, O.
II. PB-24136

paratively low for cracked fuels. Since sulfuric acid is frequently used in the refining process the belief persists that traces of sulfur remaining in the fuels have an unfavorable effect. Artificially added sulfur compounds have, in fact, a significant effect. The results of the investigation show the influence of sulfur compounds upon the knock rating. In addition, a discussion is given of gas formation in sulfur-bearing cracked fuels and their stability to light.
(Author)

PB 63-14377

Wickmayer, O.
A MORE SIMPLIFIED RAPID METHOD FOR THE DE-
TERMINATION OF TETRAETHYLLEAD IN AIRCRAFT
ENGINE FUELS. 17 F-44, Sp. (figs. omitted) 1 ref.
Order from OTS or SLA \$1.10
63-10955

Trans. of mono. [Weiter Vereinfachtes Schnellverfahren
zur Bestimmung des Bleisäureäthylgehaltes in Flug-
motorenkraftstoffen] n. p., 13 July 40 (13p.) (PB-36649).

DESCRIPTORS: *Aviation fuels, *Lead compounds,
*Ethyl radicals, Quantitative analysis, Iodine, Alcohols,
Solutions, Fuels.

63-10955

- I. Wickmayer, O.
- II. PB-36 649

have the disadvantage that a tetraethyllead determination requires 2 to 4 hours. The method recently developed in the PKPS, in which iodine is added to tetraethyllead in the form of a 1/10 normal aqueous iodine solution, resulted in considerable simplification. Further simplification and shortening of the time can be achieved by using an alcoholic iodine solution in place of the aqueous solution since, under these conditions, the unsaturated hydrocarbons are no longer attacked, and saturation of the solution with trichloroacetic acid is no longer necessary. (Author)

PS-

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ETHYLLEAD AS AN ANTIKNOCK AGENT. 23 Feb 49.
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DESCRIPTORS: Lead compounds. *Ethyl radicals.
Fuel additives. Antiknock. Synthesis (Chemistry).
Quantitative analysis. Pharmacology. Bibliographies.

63-14293
1. Title: Tetraethyllead
I. Widmann, G.
II. Senninger, L.

63-14293

Use of tetraethyllead as an antiknock agent
Physicochemical properties of tetraethyllead
Physiological effects of tetraethyllead
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