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is especially useful for those preparing for engineering.

Impact of frying on iodine value of vegetable oils before ...

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The greater the iodine value, the more unsaturation and the higher the susceptibility to oxidation. Peanut oil (IV 82-107) is more saturated than corn (IV 103-128), cottonseed (IV 99-113), or linseed (IV

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155-205) oils; however, it is considerably less saturated than coconut (IV 7.7-10.5), palm (IV 44-54) or butter (IV 25-42) oils.

**Iodine Value test with CDR
PalmOilTester palm oil**

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analysis ...

This work described study protocols on the production of Palm-Based Standard Reference Materials for iodine value and slip melting point. Thirty-three laboratories collaborated in

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the inter-laboratory proficiency tests for characterization of iodine value, while thirty-two laboratories for characterization of slip melting point.

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Iodine Value Test - PalmOilTester

Determination of Iodine
Value of Palm Based on
Triglyceride Composition.

... The more unsaturated the
fatty acid, the greater the
iodine value (IV). ... of

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Iodine Value of Palm Oil by
Differen- ...

**Iodine Value - an overview |
ScienceDirect Topics**

Iodine value (IV) is used as
a parameter in process
control as well as a quality

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parameter in traded palm oil products. IV measures the number of double bonds in the molecular structure of an oil....

**Iodine Value of Edible Oils
and Fats According to Wijs**

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•••

The iodine value (or iodine adsorption value or iodine number or iodine index) in chemistry is the mass of iodine in grams that is consumed by 100 grams of a chemical substance. Iodine

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numbers are often used to determine the amount of unsaturation in fatty acids. This unsaturation is in the form of double bonds, which react with iodine compounds. The higher the iodine number, the more C=C

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bonds ...

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IODINE VALUE (I.V.) | palm
oil DEFINITION AND SCOPE The
most important application
of the iodine value is to

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determine the amount of unsaturation contained in fatty acids. This unsaturation is in the form of double bonds which react with iodine compounds. The higher the iodine value, the more unsaturated fatty acid

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bonds are present in a fat.

**Iodine Value - an overview |
ScienceDirect Topics**

CDR PalmOilTester Iodine
Value test shows a good
correlation with AOCS
Official Method Cd 1d-92.

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for refined and crude palm oil and palm kernel oil.
Principle of the test.
Double bonds react with iodine in alcoholic solution determining a variation in the reagent's absorbance.

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Palm Oil & Others: Iodine Value (IV)

Iodine value is a measure of the degree of unsaturation of an oil. It is defined as the number of parts by mass of iodine absorbed by 100 parts by mass of an oil or

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fat. REAGENTS: Hanus solution(iodine monobromide), freshly prepared starch solution, carbon tetrachloride, 10% solution of potassium iodide, standard sodium thiosulphate solution N/10

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Palm Oil Tester | Quartz Analytics

Iodine value (IV) is used as a parameter in process control as well as a quality parameter in traded palm oil products. IV measures the

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number of double bonds in the molecular structure of an oil. To form a double bond, carbon requires more energy (615 kJ/mol) than to form a single bond (350 kJ/mol).

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IODINE VALUE (I.V.) | palm oil - QCL

Iodine value can be used to measure the degree of unsaturation of oils and fats. The results are normally expressed as the number of grams of iodine

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absorbed by 100 g of oil or fat, considering the conditions of the test. This parameter is extremely important in the palm oil industry, where it is used to follow the fractionation process.

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Palm-Based Standard Reference Materials for Iodine Value ...

Iodine value recommended standards are as follows (g of iodine/100g of oil): Palm 50-55, corn 103-135, soybean

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120-143, sunflower 110-143
and peanut 84-105 [12] .

Estimation of Iodine Value of Fats and Oils (Theory ...

Typical IV value Coconut Oil
- 9 Palm Kernel Oil - 18
Palm Oil - 52 Palm Olein -

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56 Palm Stearin - 25 to 33
Rapeseed Oil - 110 Maize Oil
- 103 - 125 Soyabean Oil -
130 Linseed Oil - 180 The
test method is fast,
reliable and especially
useful in identifying mixing
of high IV oil into low IV.

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**Determination of iodine
value of palm oil ... -
SpringerLink**

VARIABILITY IN FATTY ACID
COMPOSITION, IODINE VALUE
AND CAROTENE CONTENT IN THE
MPOB OIL PALM GERmplasm

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COLLECTION FROM ANGOLA 16 palms/progeny/replicate with two replicates had been planted in predominantly Rengam Series soil (Typic paleudult) in 1994 as Trial 0.312 in a completely randomized design with

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equitriangular spacing of

VARIABILITY IN FATTY ACID COMPOSITION, IODINE VALUE AND . . .

Haryati, T., T. Herawan, and
L. Buana, Use of Refractive
Index for Controlling Iodine

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Value in the CPO Refinery
and Fractionation Plants, in
Proceedings of the 1993
PORIM International Palm Oil
Congress, Kuala Lumpur,
1993, pp. 141-146. Google
Scholar

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**Determination of iodine
value of palm oil ... -
SpringerLink**

Iodine value or number is the number of grams of iodine consumed by 100g of fat. A higher iodine value indicates a higher degree of

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unsaturation. unsaturated fatty acids . Principle: Fatty acids react with a halogen [iodine] resulting in the addition of the halogen at the C=C double bond site. In this reaction, iodine monochloride reacts

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with ...

**(PDF) Determination of
Iodine Value of Palm Based
on ...**

Iodine Value of Edible Oils
and Fats According to Wijs
(AOAC Method 1) Dissolve the

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sample in CCl_4 , add 25 mL Wijs solution and keep in the dark for approx. 1 hour to complete the reaction. 2) Add deionized water and titrate excess iodine with sodium thiosulphate.

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DETERMINATION OF THE IODINE VALUE OF OILS AND FATS

Results ...

PalmOil Tester: analyzer for crude and refined palm oil. PalmOil Tester is a simple and accurate testing system that, within a few minutes,

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enables to determine Free Fatty Acid (FFA), Peroxide Value (PV), DOBI, Iodine Value, Anisidine Value (AnV) & Carotene in raw and refined palm oil.

(PDF) Determination of

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**iodine value of palm oil by
...**

Iodine Value test of Palm
Oils in just 2 minutes with
CDR PalmOilTester method
Faster and Easier than
titration, correlated with
official AOCS method

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Category Science &
Technology

Iodine value - Wikipedia

Thanks to its ease of use
and reliability, CDR
PalmOilTester is employed by
palm oil producers in Asia,

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Africa and South America
during all production
stages. Furthermore, ...
Iodine value (IV) 100
*300560: 2 - 100 I.V. ...

**Chemical Analyses on Palm
Oil with CDR PalmOilTester**

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determination of iodine value is of commercial importance viz.: 7 vegetable oils (olive oil, refined palm kernel oil, crude and refined palm oil, tung oil, sunflower seed oil, hydrogenated soya bean oil),

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3 animal fats (crude and hydrogenated fish oil, tallow) and a used frying oil.

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