



# Standard Specification for Distilled Coconut Fatty Acids<sup>1</sup>

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## 1. Scope

1.1 This specification covers distilled fatty acids derived from coconut oil. Two types are covered as follows:

1.1.1 *Type I*—Usually produced from raw coconut oil.

1.1.2 *Type II*—Usually produced from recovered coconut oil.

## 2. Referenced Documents

### 2.1 ASTM Standards:

D 1467 Guide for Testing Fatty Acids Used in Protective Coatings<sup>2</sup>

D 1544 Test Method for Color of Transparent Liquids (Gardner Color Scale)<sup>3</sup>

D 1959 Test Method for Iodine Value of Drying Oils and Fatty Acids<sup>2</sup>

D 1962 Test Method for Saponification Value of Drying Oils, Fatty Acids, and Polymerized Fatty Acids<sup>2</sup>

D 1965 Test Method for Unsaponifiable Matter in Drying Oils, Fatty Acids, and Polymerized Fatty Acids<sup>2</sup>

D 1980 Test Method for Acid Value of Fatty Acids and Polymerized Fatty Acids<sup>2</sup>

D 1982 Test Method for Titer of Fatty Acids<sup>2</sup>

## 3. Properties

3.1 Distilled coconut fatty acids shall conform to the requirements in Table 1 .

TABLE 1 Requirements for Distilled Coconut Fatty Acids

	ASTM Test Method	Type I	Type II
Acid value	D 1980	258 to 268	255 to 266
Saponification value	D 1962	260 to 272	257 to 268
Unsaponifiable matter, max, %	D 1965	1.00	1.00
Iodine value	D 1959	8 to 15	8 to 15
Color, Gardner, max	D 1544	3	5
Titer, ° C	D 1982	22 to 26	22 to 28

## 4. Test Method

4.1 The properties enumerated in this specification shall be determined in accordance with Methods D 1467.

## 5. Keywords

5.1 coconut fatty acids; coconut oil; fatty acids

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<sup>2</sup> Annual Book of ASTM Standards, Vol 06.03.

<sup>3</sup> Annual Book of ASTM Standards, Vol 06.01.

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