



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

This standard is issued under the fixed designation D 1842; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This specification covers distilled fatty acids derived from corn oil; recovered corn oil usually is used.

## 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 corn fatty acids shall conform to the requirements in Table 1 .

TABLE 1 Requirements for Distilled Corn Fatty Acids

	ASTM Test Method	
Acid value	D 1980	195 to 205
Saponification value	D 1962	197 to 207
Unsaponifiable matter, max, %	D 1965	1.50
Iodine value, min	D 1959	110
Color, Gardner, max	D 1544	8
Titer, ° C	D 1982	26 to 32

## 4. Test Method

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

## 5. Keywords

5.1 corn fatty acids; corn 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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