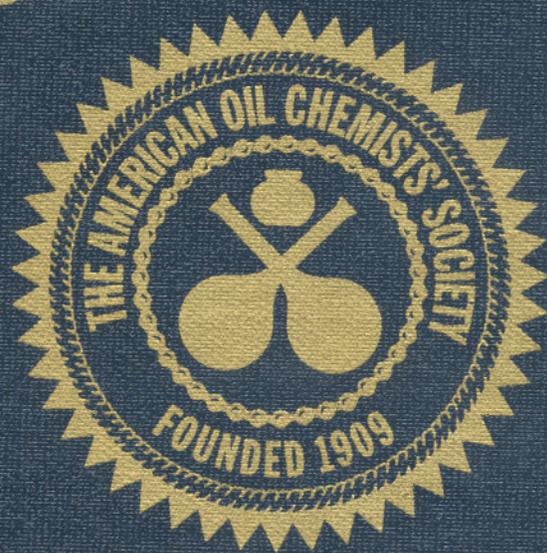


Official Methods and Recommended Practices of the AOCS

6TH EDITION

100th Anniversary Edition



*Celebrating 100 Years
of Analytical Excellence*

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Glycerol	Ea 6	-51 (97) *
Crude Glycerin	Ea 6	-94 (09)
Specific Gravity.....	Ea 7	-95 (09)
Moisture	Ea 8	-58 (09)
Color (APHA scale).....	Ea 9	-65 (09)

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Moisture, Distillation Method	F 1 a	-44 (09)
Moisture and Volatile Matter, Hot Plate Method	F 1 b	-44 (09)
Organically Combined Sulfuric Anhydride		
Titration Method.....	F 2 a	-44 (09)
Extraction Titration Method.....	F 2 b	-44 (09)
Ash-Gravimetric Method	F 2 c	-44 (09)
Total Desulfated Fatty Matter.....	F 3	-44 (09)
Total Active Ingredients	F 4	-44 (09)
Unsaponifiable Nonvolatile Matter	F 5	-44 (09)
Inorganic Salts.....	F 6	-44 (09)
Total Alkalinity	F 7	-44 (09)
Total Ammonia	F 8	-44 (09)
Acidity (sulfonated or sulfated oils, with exceptions)	F 9 a	-44 (09)
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Total Fatty Acids, Wet Extraction Method	G 3	-53 (09)
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Total Fatty Acids.....	G 4	-40 (09)
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Thermometer Specifications (see H 5-40)	H 7	-45 (09)
Thermometer Specifications (see H 5-40)	H 8	-45 (09)
Desiccants	H 9	-87 (09)
Thermometer Specifications (see H 5-40)	H 10	-55 (09)
Thermometer Specifications (see H 5-40)	H 11	-58 (09)
Sodium Hydroxide, Standard Solution.....	H 12	-52 (09)
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Section J: Lecithin		
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Moisture, Karl Fischer Reagent	Ja 2 b	-87 (09)
Hexane-Insoluble Matter	Ja 3	-87 (09)
Acetone-Insoluble Matter	Ja 4	-46 (09)
Phosphorus, Total.....	Ja 5	-55 (89) *
Acid Value	Ja 6	-55 (09)
Phospholipids in Lecithin Concentrates by TLC.....	Ja 7	-86 (09)
Phospholipids in Lecithin Concentrates by HPLC.....	Ja 7 b	-91 (09)
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Peroxide Value	Ja 8	-87 (09)

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Section T: Test Methods for Industrial Oils and Derivatives

Sampling		
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Commercial Fatty Acids.....	Ta 1	-09 (09)
Epoxidized Oils.....	Ta 1	-09 (09)
Fatty Nitrogen Products.....	Ta 1	-09 (09)
Polymerized Fatty Acids.....	Ta 1	-09 (09)
Dibasic Acids	Ta 1e	-70 (09)
Moisture		
and Volatile Matter Fatty Acids (hot plate method)	Tb 1a	-64 (09)
Modified Karl Fischer Reagent (general)	Tb 2	-64 (97) *
Fatty Nitrogen Compounds (modified Karl Fischer reagent)	Tb 2a	-64 (89) *
Nonvolatiles (solids)		
Drying Oils (hot plate method).....	Tc 1a	-64 (09)
Fatty Quaternary Ammonium Chlorides (vacuum oven)	Tc 2a	-64 (09)
Color		
Gardner	Td 1a	-64 (09)
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Acid Value		
Commercial Fatty Acids.....	Te 1a	-64 (09)
Polymerized Fatty Acids.....	Te 1a	-64 (09)
Drying Oils.....	Te 2a	-64 (09)
Fatty Quaternary Ammonium Chlorides (including free amine value)	Te 3a	-64 (09)
Dibasic Acids	Te 4a	-70 (09)
Amine Value		
Total Amine Value of Fatty Amines (potentiometric method)	Tf 1a	-64 (09)
Total Amine Value of Fatty Amines (indicator method)	Tf 1b	-64 (09)
Primary, Secondary, and Tertiary Potentiometric Fatty Amines	Tf 2a	-64 (09)
Primary, Secondary, and Tertiary Indicator Fatty Amines.....	Tf 2b	-64 (09)
Percent Primary, Secondary, and Tertiary Amines in Fatty Acids.....	Tf 3a	-64 (09)

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Composition		
Primary Amine Composition by GLC	Tf 4a	-77 (09)
Composition of Dimer Acids by HPLC	Tf 5	-91 (09)
Iodine Value		
Wijs Method (general)	Tg 1	-64 (09)
Commercial Fatty Acids, Wijs Method	Tg 1a	-64 (09)
Fatty Amines, Modified Wijs Method	Tg 2a	-64 (09)
Fatty Quaternary Ammonium Chlorides, Modified Wijs Method	Tg 3a	-64 (09)
Diene Value		
Drying Oils	Th 1a	-64 (09)
Conjugated Dienoic Acid		
Spectrophotometric Determination (dehydrated castor oil, fatty acids, and their methyl or ethyl esters)	Ti 1a	-64 (09)
Polyunsaturated Acids		
Spectrophotometric Method (commercial fatty acids)	Tj 1a	-64 (93) *
Unsaponifiable Matter		
Drying Oils	Tk 1a	-64 (09)
Commercial Fatty Acids	Tk 1a	-64 (09)
Polymerized Fatty Acids	Tk 1a	-64 (09)
Saponification Value	Tl 1a	-64 (09)
Ash		
Commercial Fatty Acids	Tm 1a	-64 (09)
Drying Oils	Tm 1a	-64 (09)
Fatty Quaternary Ammonium Chlorides	Tm 2a	-64 (09)
Flash and Fire Points		
Cleveland Open Cup (fatty acids)	Tn 1a	-64 (09)
Cleveland Open Cup (drying oils)	Tn 1a	-64 (09)
Closed Cup, Fatty Quaternary Ammonium Chlorides	Tn 2a	-86 (09)
Specific Gravity		
Commercial Fatty Acids	To 1a	-64 (09)
Drying Oils	To 1b	-64 (09)
Refractive Index		
Commercial Fatty Acids	Tp 1a	-64 (09)
Drying Oils	Tp 1a	-64 (09)
Viscosity		
Bubble Time Method (drying oils)	Tq 1a	-64 (09)
Titer		
Commercial Fatty Acids	Tr 1a	-64 (09)
Rosin Acids		
Commercial Fatty Acids	Ts 1a	-64 (09)
Tolerance Test		
Acetone (drying oils)	Tt 1a	-64 (09)
pH		
of Fatty Quaternary Ammonium Chlorides	Tu 1a	-64 (09)
Average Molecular Weight		
Fatty Quaternary Ammonium Chlorides	Tv 1a	-64 (09)
Nonamines		
Fatty Amines and Fatty Diamines	Tw 1a	-64 (09)
Hydroxyl Value of Epoxidized Oils	Tx 1a	-66 (09)
Dicarboxylic Acid Composition of Dimethyl Esters by GLC	Ty 1a	-76 (09)
Activity of Hydrogenation Catalysts	Tz 1a	-78 (09)
Selectivity of Hydrogenation Catalysts	Tz 1b	-79 (09)