

Test Method ASTM D 6584 / EN 14105 for Determination of Free and Total Glycerin in B-100 Biodiesel Methyl Esters by Gas Chromatography

DCG has available NIST Traceable by weight gravimetrically prepared stock solutions and standard solutions for ASTM D6584 / EN 14105. All standards in addition to being gravimetrically prepared and NIST Traceable by weight have been verified by one or more analytical methods. Custom Standards are available. DCG offers several purchasing options:

Option 1: Stock Solution (D6584 Table 2). Can be purchased as a complete kit or individually.

Complete Kit for Option 1 Part #: D6584 STKSOL Kit: \$375.00: Contains one each of the following:

Glycerin 25 mg / 50 mL pyridine. 1 mL pre-scored ampoule.
 Monoolein 50 mg / 10 mL pyridine. 2 mL pre-scored ampoule.
 Diolein 50 mg / 10 mL pyridine. 1 mL pre-scored ampoule.
 Triolein 50 mg / 10 mL pyridine. 1 mL pre-scored ampoule.
 Internal Standard # 1: 1,2,4 Butanetriol 25 mg / 25 mL pyridine. 5 mL pre-scored ampoule.
 Internal Standard # 2: Tricaprin 80 mg / 10 mL pyridine. 5 mL pre-scored ampoule.

Individual Part Numbers for Option 1:

Part #: D6584 Glycerin STKSOL: \$24.00: Glycerin 25 mg / 50 mL pyridine. 1 mL pre-scored ampoule.
Part #: D6584 Monoolein STKSOL: \$24.00: Monoolein 50 mg / 10 mL pyridine. 2 mL pre-scored ampoule.
Part #: D6584 Diolein STKSOL: \$24.00: Diolein 50 mg / 10 mL pyridine. 1 mL pre-scored ampoule.
Part #: D6584 Triolein STKSOL: \$24.00: Triolein 50 mg / 10 mL pyridine. 1 mL pre-scored ampoule.
Part #: D6584 Butanetriol STKSOL (Internal Standard # 1): \$148.00: 1,2,4 Butanetriol 25 mg / 25 mL pyridine. 5 mL pre-scored ampoule.
Part #: D6584 Tricaprin STKSOL (Internal Standard # 2): \$148.00: Tricaprin 80 mg / 10 mL pyridine. 5 mL pre-scored ampoule.

Option 2:

The following Standard Solutions from D6584 Table 3 can be purchased as a complete kit or individually. The Internal Standards are not premixed into the standard solutions. This option requires the chemist to mix internal standards # 1 & 2 into each Standard Solution.

Complete Kit for Option 2 Part #: D6584 STDSOL# 1 – 5 & Internal Standard 1 & 2: \$350.00

Standard Solutions 1 – 5 in 1 mL pre-scored ampoules. Internal Standards 1 & 2 in 5 mL pre-scored ampoules.

Standard Solution without Internal Standards	# 1	# 2	# 3	# 4	# 5
µL of Glycerin Stock Solution	10	30	50	70	100
µL of Monoolein Stock Solution	20	50	100	150	200
µL of Diolein Stock Solution	10	20	40	70	100
µL of Triolein Stock Solution	10	20	40	70	100

Part #: D6584 Butanetriol STKSOL (Internal Standard # 1): 1,2,4 Butanetriol 25 mg / 25 mL pyridine.

Part #: D6584 Tricaprin STKSOL (Internal Standard # 2): Tricaprin 80 mg / 10 mL pyridine.

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Chromatographic Reference Materials



Individual Part Numbers for Option 2.

- Part #: D6584 STDSOL # 1:** Standard Solution # 1: \$24.00. 1 mL pre-scored ampoule.
- Part #: D6584 STDSOL # 2:** Standard Solution # 2: \$24.00. 1 mL pre-scored ampoule.
- Part #: D6584 STDSOL # 3:** Standard Solution # 3: \$24.00. 1 mL pre-scored ampoule.
- Part #: D6584 STDSOL # 4:** Standard Solution # 4: \$24.00. 1 mL pre-scored ampoule.
- Part #: D6584 STDSOL # 5:** Standard Solution # 5: \$24.00. 1 mL pre-scored ampoule.
- Part #: D6584 Butanetriol STKSOL (Internal Standard # 1):** \$148.00. 5 mL pre-scored ampoule.
- Part #: D6584 Tricaprin STKSOL (Internal Standard # 2):** \$148.00. 5 mL pre-scored ampoule.

Option 3

The following Standard Solutions from D6584 Table 3 can be purchased as a complete kit or individually. The Internal Standards are premixed into the standard solutions.

Complete Kit Part #: D6584 Table 3 Kit with Internal Standards: \$140.00: Standard Solutions with Internal Standards (D6584 Table 3). Contains one each of standard Solution #'s 1, 2, 3, 4 & 5 with Internal Standards # 1 & 2 premixed into the Standard Solutions. Packaged in 1 mL pre-scored ampoules.

Standard Solution with Internal Standards	# 1	# 2	# 3	# 4	# 5
µL of Glycerin Stock Solution	10	30	50	70	100
µL of Monoolein Stock Solution	20	50	100	150	200
µL of Diolein Stock Solution	10	20	40	70	100
µL of Triolein Stock Solution	10	20	40	70	100
µL of Butanetriol Stock Solution, Internal Standard # 1	100	100	100	100	100
µL of Tricaprin Stock Solution, Internal Standard # 2	100	100	100	100	100

Individual Part Numbers for Option 3

Packaged in 1 mL pre-scored ampoules

- Part #: D6584 STDSOL # 1 with Internal Standards:** Standard Solution # 1: \$30.00
- Part #: D6584 STDSOL # 2 with Internal Standards:** Standard Solution # 1: \$30.00
- Part #: D6584 STDSOL # 3 with Internal Standards:** Standard Solution # 3: \$30.00
- Part #: D6584 STDSOL # 4 with Internal Standards:** Standard Solution # 4: \$30.00
- Part #: D6584 STDSOL # 5 with Internal Standards:** Standard Solution # 5: \$30.00

Additional Products Required For ASTM D 6584 / EN 14105

Silyating Agent, N-Methyl-N-trimethylsilyltrifluoroacetamide (MSTFA)

Part #: D6584 MSTFA 5 mL: \$145.00: N-Methyl-N-trimethylsilyltrifluoroacetamide (MSTFA), Packaged in 5 mL pre-scored ampoule.

Part #: D6584 n-Heptane: \$75.00: Reagent Grade n-Heptane, 100 mL

Part #: D6584 vial, cap & Septa: \$220.00: 200 each 12 mL amber glass screw thread vial with cap and PTFE/silicone septa.

Prices are subject to change

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