

## 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 N.I.S.T. traceable by weight, gravimetrically prepared stock solutions and standard solutions for ASTM D6584 / EN 14105. All standards in addition to being gravimetrically prepared and N.I.S.T. traceable by weight, have been verified by one or more analytical methods. Custom Standards are available. DCG offers several purchasing options:

**Table 2, Stock Solutions:** Stock Solutions and internal standards can be purchased as a complete kit or individually.

### **Complete Kit for Table 2 Stock Solutions**

**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 Table 2:**

**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 40 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 25mg/10 ml. pyridine. 5 mL pre-scored ampoule.

**Part #: D6584 Tricaprin STKSOL (Internal Standard # 2):**  
**\$148.00:** Tricaprin 80mg/10ml. pyridine. 5mL pre-scored ampoule.



**DCG PARTNERSHIP 1, LTD.**

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[www.dcgpartnership.com](http://www.dcgpartnership.com)

The following Standard Solutions from D6584 Table 2 are purchased as a complete kit.

**Table 3 Part #: D6584 TABLE 3 KIT \$250.00:**

Contains one each of standard Solution #'s 1,2,3,4 & 5 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

**Included in the above Kit:**  
**1 x 5 ml. ampoule of Butanetriol**  
**And**  
**1 x 5 ml. ampoule of Tricaprin**

**Additional Products required for ASTM D 6584 / EN 14105**

**Individual Part numbers:**  
**Part #: D6584 Butanetriol: \$145.00.** 5 ml. pre-scored ampoule.

**Part #: D6584 Tricaprin: \$145.00.** 5 ml. pre-scored ampoule.

**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

