# Glycol Ethers of Regulatory Importance on a Non-Restek 624-Type Column

<table>
<thead>
<tr>
<th>Peaks</th>
<th>tR (min)</th>
<th>Conc. (µg/mL)</th>
<th>Common Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. EGME</td>
<td>4.423</td>
<td>100</td>
<td>Ethylene glycol methyl ether</td>
</tr>
<tr>
<td>2. EGEE</td>
<td>5.186</td>
<td>100</td>
<td>Ethylene glycol ethyl ether</td>
</tr>
<tr>
<td>3. Perfluoro TEGME (IS)</td>
<td>5.346</td>
<td>100</td>
<td>Perfluoro triethylene glycol methyl ether</td>
</tr>
<tr>
<td>4. PnPGE</td>
<td>6.272</td>
<td>100</td>
<td>Propylene glycol propyl ether</td>
</tr>
<tr>
<td>5. PGMA</td>
<td>6.412</td>
<td>100</td>
<td>Propylene glycol methyl ether acetate</td>
</tr>
<tr>
<td>6. EGDME</td>
<td>7.016</td>
<td>100</td>
<td>Ethylene glycol butyl ether</td>
</tr>
<tr>
<td>7. PGBE</td>
<td>7.156</td>
<td>100</td>
<td>Propylene glycol butyl ether</td>
</tr>
<tr>
<td>8. DEGME</td>
<td>7.156</td>
<td>100</td>
<td>Diethylene glycol methyl ether</td>
</tr>
<tr>
<td>9. DPGME I</td>
<td>7.530</td>
<td>100</td>
<td>Dipropylene glycol methyl ether</td>
</tr>
<tr>
<td>10. DPGME II</td>
<td>7.530</td>
<td>100</td>
<td>Dipropylene glycol methyl ether</td>
</tr>
<tr>
<td>11. DPGME III</td>
<td>7.530</td>
<td>100</td>
<td>Dipropylene glycol methyl ether</td>
</tr>
<tr>
<td>12. 1,2-DCE-04 (IS)</td>
<td>7.838</td>
<td>100</td>
<td>1,2-Dichlorobenzene-04</td>
</tr>
<tr>
<td>13. EGHE</td>
<td>8.225</td>
<td>100</td>
<td>Ethylene glycol hexyl ether</td>
</tr>
<tr>
<td>14. DEGHE</td>
<td>8.777</td>
<td>100</td>
<td>Diethylene glycol hexyl ether</td>
</tr>
<tr>
<td>15. PGHE</td>
<td>9.184</td>
<td>100</td>
<td>Ethylene glycol phenyl ether</td>
</tr>
<tr>
<td>16. TPGME isomers</td>
<td>9.324</td>
<td>100</td>
<td>Tripropylene glycol methyl ether</td>
</tr>
<tr>
<td>17. DEGBE</td>
<td>9.403</td>
<td>100</td>
<td>Diethylene glycol hexyl ether</td>
</tr>
</tbody>
</table>

Standard was prepared from commercially available neat compounds, 95-99% purity.

---

**Column**
- Sample: Methanol
- Conc.: 100 ppm

**Injection**
- Inj. Vol.: 1 µL split (split ratio 30:1)
- Inj. Temp.: 260 °C

**Oven**
- Oven Temp.: 40 °C (hold 2 min) to 240 °C at 27 °C/min (hold 6 min)

**Carrier Gas**
- He, constant flow
- Flow Rate: 1.3 mL/min
- Linear Velocity: 41.05 cm/sec @ 40 °C

**Detector**
- MS
- Mode: Scan
- Scan Program:
  - Group 1
    - Start Time (min)
    - Scan Range (amu)
    - Scan Rate (scans/sec)
    - 2 | 20-220 | 29

**Transfer Line**
- Temp.: 250 °C

**Analyzer Type**
- Quadrupole

**Source Type**
- Inert

**Source Temp.**
- 230 °C

**Quad Temp.**
- 150 °C

**Electron Energy**
- 70 eV

**Solvent Delay**
- 2 min

**Tune Type**
- PFTBA

**Ionization Mode**
- EI

**Instrument**
- Agilent 7890A GC & 5975C MSD

---

Restek Corporation 110 Benner Circle Bellefonte, PA 16823
1-814-353-1300 • 1-800-356-1688 • Fax: 1-814-353-1309 • www.restek.com