

# GC Application

ID No.: 14783

## EPA Method 8260: Volatile Organics on ZB-624

**Column:** Zebron<sup>™</sup> ZB-624, GC Cap. Column 60 m x 0.25 mm x 1.40 µm, Ea

**Phase:** 6% Cyanopropylphenyl 94% Dimethylpolysiloxane

**Dimensions:** 60 meters x 0.25 mm x 1.4 µm

**Order No:** 7KG-G005-27

**Oven Profile:** 40°C for 2 min to 225°C at 10°C/min for 3.5 min

**Carrier Gas:** Constant Flow Helium, 1.1 mL/min

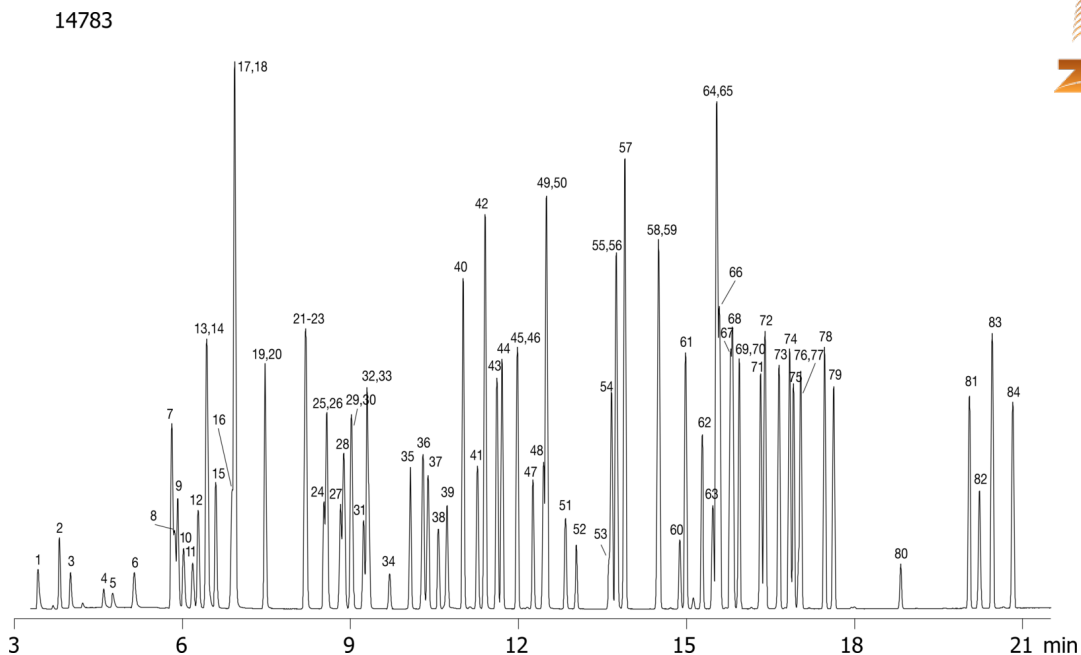
**Injection:** Purge and Trap 30:1 1 µL @ 250°C

**Detection:** Mass Selective (MSD) (180°C)

**Analyst Note:** The sample was introduced via a Tekmar 2000 Purge and Trap with the following settings. Purge time was 11.0



Products used in this application:



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## ANALYTES:

<b>1</b> Dichlorodifluoromethane	<b>41</b> cis-1,3-Dichloropropene	<b>81</b> 1,2,4-Trichlorobenzene
<b>2</b> Chloromethane	<b>42</b> 4-Methyl-2-Pentanone	<b>82</b> Hexachlorobutadiene
<b>3</b> Vinyl chloride	<b>43</b> Toluene-d8	<b>83</b> Naphthalene
<b>4</b> Bromomethane	<b>44</b> Toluene	<b>84</b> 1,2,3-Trichlorobenzene
<b>5</b> Chloroethane	<b>45</b> trans-1,3-Dichloropropene	
<b>6</b> Trichlorofluoromethane	<b>46</b> Ethyl methacrylate	
<b>7</b> Acrolein	<b>47</b> 1,1,2-Trichloroethane	
<b>8</b> 1,1,2-Trichloro-1,2,2-trifluorome	<b>48</b> Tetrachloroethene	
<b>9</b> 1,1-Dichloroethene	<b>49</b> 1,3-Dichloropropane	
<b>10</b> Acetone	<b>50</b> 2-Hexanone	
<b>11</b> Iodomethane	<b>51</b> Dibromochloromethane	
<b>12</b> Carbon disulfide	<b>52</b> 1,2-Dibromoethane	
<b>13</b> Methyl acetate	<b>53</b> Chlorobenzene-d5	
<b>14</b> Acetonitrile	<b>54</b> Chlorobenzene	
<b>15</b> Methylene chloride	<b>55</b> Ethylbenzene	
<b>16</b> t-Butyl Methyl Ether	<b>56</b> 1,1,1,2-Tetrachloroethane	
<b>17</b> trans-1,2-Dichloroethene	<b>57</b> m/p-Xylene	
<b>18</b> Acrylonitrile	<b>58</b> o-Xylene	
<b>19</b> 1,1-Dichloroethane	<b>59</b> Styrene	
<b>20</b> Vinyl acetate	<b>60</b> Bromoform	
<b>21</b> 2,2 Dichloropropane	<b>61</b> Isopropylbenzene	
<b>22</b> 2-Butanone	<b>62</b> p-Bromofluorobenzene	
<b>23</b> cis-1,2-Dichloroethene	<b>63</b> 1,1,2,2-Tetrachloroethane	
<b>24</b> Bromochloromethane	<b>64</b> Bromobenzene	
<b>25</b> Tetrahydrofuran	<b>65</b> t-1,4-Dichloro-2-Butene	
<b>26</b> Chloroform	<b>66</b> 1,2,3-Trichloropropane	
<b>27</b> 1,1,1-Trichloroethane	<b>67</b> n-Propylbenzene	
<b>28</b> Cyclohexane	<b>68</b> 1,3,5-Trimethylbenzene	
<b>29</b> Carbon tetrachloride	<b>69</b> 2-Chlorotoluene	
<b>30</b> 1,1-Dichloropropene	<b>70</b> 4-Chlorotoluene	
<b>31</b> 1,2-Dichloroethane-d4	<b>71</b> tert-Butylbenzene	
<b>32</b> Benzene	<b>72</b> 1,2,4-Trimethylbenzene	
<b>33</b> 1,2-Dichloroethane	<b>73</b> sec-Butylbenzene	
<b>34</b> 1,4-Difluorobenzene	<b>74</b> 4-Isopropyltoluene	
<b>35</b> Trichloroethene	<b>75</b> 1,3-Dichlorobenzene	
<b>36</b> Methylcyclohexane	<b>76</b> 1,4-Dichlorobenzene-d4	
<b>37</b> 1,2-Dichloropropane	<b>77</b> 1,4-Dichlorobenzene	
<b>38</b> Dibromomethane	<b>78</b> n-Butylbenzene	
<b>39</b> Bromodichloromethane	<b>79</b> 1,2-Dichlorobenzene	
<b>40</b> 2-Chloroethyl vinyl ether	<b>80</b> 1,2-Dibromo-3-Chloropropane	

