

# GC Application

ID No.: 16413

## EPA Method 8270C ZB-5MSi

**Column:** Zebron<sup>™</sup> ZB-5MSi, GC Cap. Column 30 m x 0.25 mm x 0.25  $\mu$ m, Ea  
**Phase:** 5% Phenyl 95% Dimethylpolysiloxane  
**Dimensions:** 30 meters x 0.25 mm x 0.25  $\mu$ m  
**Order No:** 7HG-G018-11  
**Oven Profile:** 40 °C for 2 min to 260 °C @ 15 °C/min for 5 min to 320 °C @ 15 °C/min for 2 min.

**Carrier Gas:** Constant Flow Helium, 1.5 mL/min

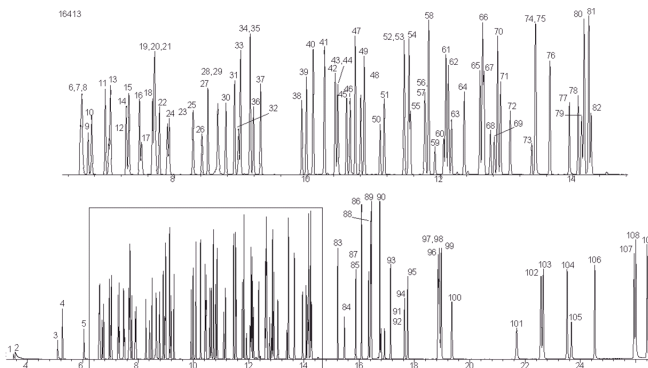
**Injection:** Splitless :1 1  $\mu$ L @ 240°C

**Detection:** Mass Selective (MSD) (230°C)

**Analyst Note:** Analytes 100ppm in methylene chloride



Products used in this application:



**EPA Method 8270C ZB-5MSi****ANALYTES:**

<b>1</b> N-Nitrosodimethylamine	<b>41</b> 1-Methylnaphthalene	<b>81</b> Anthracene
<b>2</b> Pyridine	<b>42</b> 1,2,4,5-Tetrachlorobenzene	<b>82</b> Dinoseb
<b>3</b> Methylmethane sulfonate	<b>43</b> Isosafrole-trans	<b>83</b> Dibutyl phthalate
<b>4</b> 2-Fluorophenol	<b>44</b> Hexachlorocyclopentadiene	<b>84</b> 4-Nitroquinoline-1-oxide
<b>5</b> Ethyl methanesulfonate	<b>45</b> 2,4,6-Trichlorophenol	<b>85</b> Isodrin
<b>6</b> Aniline	<b>46</b> 2,4,5-Trichlorophenol	<b>86</b> Fluoranthene
<b>7</b> Phenol-d6	<b>47</b> 2-Fluorobiphenyl	<b>87</b> Benzidine
<b>8</b> Phenol	<b>48</b> Isosafrole-cis	<b>88</b> Pyrene-d10
<b>9</b> bis(2-Chloroethyl)ether	<b>49</b> 2-Chloronaphthalene	<b>89</b> Pyrene
<b>10</b> 2-Chlorophenol	<b>50</b> 2-Nitroaniline	<b>90</b> p-Terphenyl-d14
<b>11</b> 1,3-Dichlorobenzene	<b>51</b> 1,4-Naphthoquinone	<b>91</b> Aramite
<b>12</b> 1,4-Dichlorobenzene-d4	<b>52</b> Dimethylphthalate	<b>92</b> Aramite (isomer)
<b>13</b> 1,4-Dichlorobenzene	<b>53</b> 1,3-Dinitrobenzene	<b>93</b> Chlorobenzilate
<b>14</b> Benzyl alcohol (Benzenemethanol)	<b>54</b> Acenaphthylene	<b>94</b> Kepone
<b>15</b> 1,2-Dichlorobenzene	<b>55</b> 2,6-Dinitrotoluene	<b>95</b> Butylbenzyl phthalate
<b>16</b> 2-Methylphenol	<b>56</b> 3-Nitroaniline	<b>96</b> Benz[a]anthracene
<b>17</b> bis(2-Chloroisopropyl)ether	<b>57</b> Acenaphthene-d10	<b>97</b> 3,3'-Dichlorobenzidine
<b>18</b> Acetophenone	<b>58</b> Acenaphthene	<b>98</b> Chrysene-d12
<b>19</b> 4-Methylphenol	<b>59</b> 2,4-Dinitrophenol	<b>99</b> Chrysene
<b>20</b> 3-Methylphenol	<b>60</b> 4-Nitrophenol	<b>100</b> Di-n-octyl phthalate
<b>21</b> N-Nitrosodi-n-propylamine	<b>61</b> Dibenzofuran	<b>101</b> bis(2-Ethylhexyl)phthalate
<b>22</b> Hexachloroethane	<b>62</b> Pentachlorobenzene	<b>102</b> Benzo[b]fluoranthene
<b>23</b> Nitrobenzene-d5 (surrogate)	<b>63</b> 2,4-Dinitrotoluene	<b>103</b> Benzo[k]fluoranthene
<b>24</b> Nitrobenzene	<b>64</b> 2,3,4,6-Tetrachlorophenol	<b>104</b> Benzo[a]pyrene
<b>25</b> Isophorone	<b>65</b> Diethylphthalate	<b>105</b> Perylene-d12
<b>26</b> 2-Nitrophenol	<b>66</b> Fluorene	<b>106</b> 3-Methylcholanthrene
<b>27</b> 2,4-Dimethylphenol	<b>67</b> 4-Chlorophenylphenylether	<b>107</b> Ideno(1,2,3-cd)pyrene
<b>28</b> Benzoic acid	<b>68</b> 4-Nitroaniline	<b>108</b> Dibenz[a,h]anthracene
<b>29</b> bis(2-Chloroethoxy)methane	<b>69</b> 2-Methyl-4,6-dinitrophenol	<b>109</b> Benzo[g,h,i]perylene
<b>30</b> 2,4-Dichlorophenol	<b>70</b> Diphenylamine	
<b>31</b> 1,2,4-Trichlorobenzene	<b>71</b> Azobenzene	
<b>32</b> Naphthalene-d8	<b>72</b> Tribromophenol	
<b>33</b> Naphthalene	<b>73</b> 1,3,5-Trinitrobenzene	
<b>34</b> 4-Chloroaniline	<b>74</b> Phenacetin	
<b>35</b> 2,6-Dichlorophenol	<b>75</b> 4-Bromophenyl phenyl ether	
<b>36</b> Hexachloropropene	<b>76</b> Hexachlorobenzene	
<b>37</b> Hexachlorobutadiene	<b>77</b> Pentachlorophenol	
<b>38</b> 4-Chloro-3-methylphenol	<b>78</b> Pentachloronitrobenzene	
<b>39</b> Safrole	<b>79</b> Phenanthrene-d10	
<b>40</b> 2-Methylnaphthalene	<b>80</b> Phenanthrene	

