

# GC Application

ID No.: 14442

## Semivolatiles (BNA) by GC/MS (EPA Method 8270C)

**Column:** Zebtron<sup>™</sup> ZB-5, GC Cap. Column 30 m x 0.25 mm x 0.50  $\mu$ m, Ea

**Phase:** 5% Phenyl 95% Dimethylpolysiloxane

**Dimensions:** 30 meters x 0.25 mm x 0.5  $\mu$ m

**Order No:** 7HG-G002-17

**Oven Profile:** 50°C (hold 3min), 50-325°C @ 9°C/min (hold 2min)

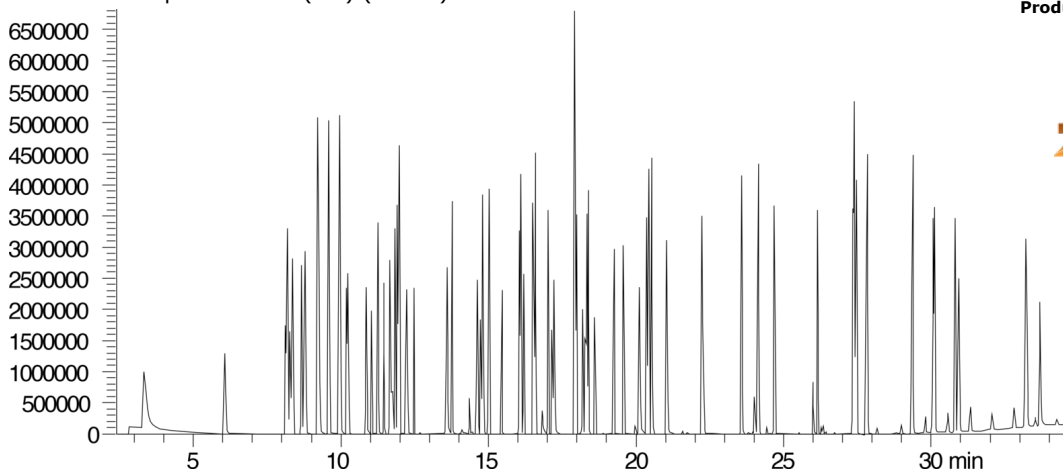
**Carrier Gas:** Helium, 1.88 mL/min

**Injection:** Split 11:1 1  $\mu$ L @ 250°C

**Detection:** Mass Spectrometer (MS) (300°C)



Products used in this application:



**Semivolatiles (BNA) by GC/MS (EPA Method 8270C)****ANALYTES:**

<b>1</b>	1,4-Dichlorobenzene-d4	<b>41</b>	2-Nitroaniline	<b>81</b>	Benzo[a]pyrene
<b>2</b>	N-Nitrosodidimethylamine	<b>42</b>	Acenaphthylene	<b>82</b>	Indeno[1,2,3-cd]pyrene
<b>3</b>	2-Fluorophenol	<b>43</b>	Dimethylphthalate	<b>83</b>	Dibenz[a,h]anthracene
<b>4</b>	bis-(2-Chloroethyl)ethane	<b>44</b>	2,6-Dinitrotoluene	<b>84</b>	Benzo[g,h,i]perylene
<b>5</b>	Phenol-d5	<b>45</b>	Acenaphthene		
<b>6</b>	2-Chlorophenol-d4	<b>46</b>	3-Nitroaniline		
<b>7</b>	Phenol	<b>47</b>	2,4-Dinitrophenol		
<b>8</b>	2-Chlorophenol	<b>48</b>	Dibenzofuran		
<b>9</b>	Aniline	<b>49</b>	2,4-Dinitrotoluene		
<b>10</b>	1,3-Dichlorobenzene	<b>50</b>	4-Nitrophenol		
<b>11</b>	1,4-Dichlorobenzene	<b>51</b>	Fluorene		
<b>12</b>	1,2-Dichlorobenzene-d4	<b>52</b>	4-Chlorophenylphenylether		
<b>13</b>	1,2-Dichlorobenzene	<b>53</b>	Diethylphthalate		
<b>14</b>	Benzyl alcohol	<b>54</b>	1,2-Diphenylhydrazine		
<b>15</b>	bis(2-Chloroisopropyl)ether	<b>55</b>	4-Nitroaniline		
<b>16</b>	2-Methylphenol	<b>56</b>	Phenanthrene-d10		
<b>17</b>	Hexachloroethane	<b>57</b>	4,6-Dinitro-2-methylphenol		
<b>18</b>	N-Nitroso-di-n-propylamine	<b>58</b>	N-Nitrosodiphenylamine		
<b>19</b>	4-Methylphenol	<b>59</b>	2,4,6-Tribromophenol		
<b>20</b>	Naphthalene-d8	<b>60</b>	4-Bromophenyl phenyl ether		
<b>21</b>	Nitrobenzene-d5	<b>61</b>	Hexachlorobenzene		
<b>22</b>	Nitrobenzene	<b>62</b>	Pentachlorophenol		
<b>23</b>	Isophorone	<b>63</b>	Phenanthrene		
<b>24</b>	Benzoic acid	<b>64</b>	Anthracene		
<b>25</b>	2-Nitrophenol	<b>65</b>	Carbazole		
<b>26</b>	2,4-Dimethylphenol	<b>66</b>	Di-n-butyl phthalate		
<b>27</b>	bis(2-Chloroethoxy)methane	<b>67</b>	Fluoranthene		
<b>28</b>	2,4-Dichlorophenol	<b>68</b>	Chrysene-d12		
<b>29</b>	1,2,4-Trichlorobenzene	<b>69</b>	Pyrene		
<b>30</b>	Naphthalene	<b>70</b>	Benzidine		
<b>31</b>	4-Chloroaniline	<b>71</b>	Terphenyl-d14		
<b>32</b>	Hexachlorobutadiene	<b>72</b>	Butylbenzyl phthalate		
<b>33</b>	4-Chloro-3-methylphenol	<b>73</b>	3,3'-Dichlorobenzidine		
<b>34</b>	2-Methylnaphthalene	<b>74</b>	Benzo[a]anthracene		
<b>35</b>	Acenaphthene-d10	<b>75</b>	Chrysene		
<b>36</b>	Hexachlorocyclopentadiene	<b>76</b>	bis(2-Ethylhexyl)phthalate		
<b>37</b>	2,4,6-Trichlorophenol	<b>77</b>	Di-n-octyl phthalate		
<b>38</b>	2,4,5-Trichlorophenol	<b>78</b>	Perylene-d12		
<b>39</b>	2-Fluorobiphenyl	<b>79</b>	Benzo[b]fluoranthene		
<b>40</b>	2-Chloronaphthalene	<b>80</b>	Benzo[k]fluoranthene		

