AMDIS GC/MS Analysis Report

Data: AKS2327.RAW

 $\label{library: C:Program Files (x86) NISTMS AMDIS 32 libraries TMS LIB_THS. MSL Number of Identifications: 144$

RT(min) 5.7277	<u>Chemical Name</u> reagent artefact_1 (ID#:FAH348-N1002)
5.8591	RI=959.7, 14.1197 min FAH388 (ID#:FAH388-N1048)
6.1031	RI=795.7, 11.2931 min OAB4671 (ID#:OAB467~1-N1002)
6.2289	contaminant_silanol (ID#:TVL0020-N1008)
6.3717	? reagent artefact_4 (ID#:FAH360-N1008)
6.3756	? reagent artefact_4 (ID#:FAH360-N1008)
6.6521	contaminant_silanol (ID#:TVL0020-N1010)
6.8036	?? reagent artefact_5 (ID#:FAH360-N1010)
6.9673	?? reagent artefact_5 (ID#:FAH360-N1010)
7.1085	?? Oxalic acid (ID#:FAH957-N1038)
7.1813	contaminant_silanol (ID#:TVL0020-N1016)
7.5243	contaminant_silanol (ID#:TVL0020-N1012)
7.5682	phenol (ID#:TVL0020-N1014)
7.6315	2 - hydroxypropanoic acid (lactic acid) (ID#:FAH0040-N1008)
7.9407	? hydroxyacetic acid (glycolic acid) (ID#:FAH0040-N1004)
8.0286	? 2 - hydroxypropenoic acid (pyruvic acid) (ID#:TVL0020-N1018)
8.1602	?? Oxalic acid (ID#:FAH957-N1038)
8.4471	?? Oxalic acid (ID#:FAH957-N1038)

8.5937	? Oxalic acid (ID#:FAH957-N1038)
8.7552	propanal_artifact (ID#:FAH0040-N1006)
8.9588	RI=1124.1, 7.4028 min AKS1974 (ID#:AKS1974-N1054)
9.0696	?? furan-2-carboxylic acid (ID#:FAH388-N1010)
9.1291	? 3 - hydroxy - pyridine (ID#:FAH388-N1008)
9.2055	RI=1136.8, 7.6203 min AKS1976 (ID#:AKS1976-N1156)
9.4084	? C1 - phenol_I3 (ID#:TVL0020-N1024)
9.6422	contaminant (ID#:FAH1384-N1014)
10.0554	?? Glyceric acid (ID#:38191-87-6)
10.2702	?? 3 - hydroxy - (4H) - pyran - 4 - one (ID#:FAH0040-N1014)
10.3562	? contaminant (ID#:FAH1384-N1014)
10.6198	RI=1214.9, 20.4578 min FAH388 (ID#:FAH388-N1014)
10.6685	? RI=1218.7, 9.0147 min AKS1976 (ID#:AKS1976-N1154)
10.7519	guaiacol (ID#:OAB466~1-N1002)
10.9970	? RI=1256.0, 21.1538 min FAH0040 (ID#:FAH0040-N1020)
11.1201	RI=1245.3, 9.4662 min AKS1975 (ID#:AKS1975-N1050)
11.1417	?? Benzoic acid (ID#:FAH1388-N1004)
11.4920	RI=1272.7, 9.9318 min AKS1975 (ID#:AKS1975-N1052)
11.5433	? glycerol (ID#:TVL0020-N1040)
11.7043	4 - vinyl - phenol (ID#:TVL0020-N1042)
11.7953	RI=1282.8, 10.1027 min AKS1976 (ID#:AKS1976-N1148)
12.0591	? RI=1296.4, 10.3341 min AKS1976 (ID#:AKS1976-N1146)
12.2622	? Succinic acid (ID#:40309-57-7)
12.5032	?? Glyceric acid (ID#:38191-87-6)
12.5571	?? RI=1325.4, 22.9173 min TVL0020 (ID#:TVL0020-N1044)

12.6864	? RI=1337.2, 11.0052 min AKS1975 (ID#:AKS1975-N1054)
12.8553	?? Oxalic acid (ID#:FAH957-N1038)
12.9729	?? 2,3 - dihydroxy - 2 - cyclopenten - 1 - one (ID#:OAB467~1-N1040)
13.1233	RI=1361.1, 23.4092 min FAH388 (ID#:FAH388-N1012)
13.2373	?? Oxalic acid (ID#:FAH957-N1038)
13.3573	? 4 - hydroxy - benzaldehyde (ID#:FAH375-N1042)
13.4117	? 1,4 - dihydroxybenzene (hydroquinone) (ID#:TVL0020-N1048)
13.5219	4 - methyl - catechol (ID#:TVL0017-N1052)
13.5815	? 2 - hydroxypropanoic acid (lactic acid) (ID#:FAH0040-N1008)
13.6945	? RI=1394.6, 11.9462 min AKS1976 (ID#:AKS1976-N1142)
13.7463	RI=1399.2, 12.0214 min AKS1975 (ID#:AKS1975-N1056)
14.0755	? reagent artefact_15_?_GOLM (ID#:FAH360-N1026)
14.3023	3 - hydroxy - 2 - hydroxymethyl - 2 - cyclopenten - 1 - one (#:FAH0040-N1038)
14.3326	4 - vinylguaiacol (ID#:OAB466~1-N1006)
14.3417	2,3 - dihydroxy - 2 - cyclopenten - 1 - one (ID#:OAB467~1-N1040)
14.4318	? RI=1442.2, 12.6794 min AKS1976 (ID#:AKS1976-N1140)
14.5463	RI=1450.2, 12.8019 min AKS1975 (ID#:AKS1975-N1058)
14.6817	RI=1454.5, 25.3715 min TVL0017 (ID#:TVL0017-N1060)
14.7575	RI=1464.2, 13.0157 min AKS1975 (ID#:AKS1975-N1060)
14.9382	? RI=1475.3, 13.1862 min AKS1976 (ID#:AKS1976-N1138)
14.9779	3,5 - dihydroxy - 2 - methyl - 4H - pyran-4-one (ID#:FAH0040-N1042)
15.0759	Malic acid (ID#:38166-11-9)
15.2506	RI=1490.9, 26.0371 min TVL0020 (ID#:TVL0020-N1066)
15.4783	RI=1510.6, 13.7245 min AKS1975 (ID#:AKS1975-N1044)

15.5637	? 4 - hydroxyphenyl - acetonitrile (ID#:FAH388-N1020)
15.8825	? 1,2,4 - trihydroxybenzene (ID#:FAH0040-N1058)
15.8879	1,2,3 - trihydroxybenzene (ID#:FAH0040-N1050)
16.1958	? RI=1245.3, 9.4662 min AKS1975 (ID#:AKS1975-N1050)
16.3910	? 4-Hydroxyphenylethanol (ID#:FAH956~1-N1048)
16.4656	RI=1578.7, 27.3745 min FAH388 (ID#:FAH388-N1032)
16.7169	2 - hydroxymethyl - 5 - hydroxy - 2,3 - dihydro - (4H) - pyran - 4 - one (ID#:FAH0040-N1056)
16.7499	4 - vinylsyringol (ID#:P_E_W_S7)
16.7937	1,2,4 - trihydroxybenzene (ID#:FAH0040-N1058)
16.9207	? RI=1245.3, 9.4662 min AKS1975 (ID#:AKS1975-N1050)
16.9976	RI=1399.2, 12.0214 min AKS1975 (ID#:AKS1975-N1056)
17.1359	? 1,6 - anhydro - b - D - glucopyranose (levoglucosane - 2TMS) (ID#:FAH0040-N1060)
17.2145	? 3 - hydroxy - benzoic acid (ID#:FAH956~1-N1050)
17.2823	?? RI=1635.7, 15.5076 min FAH1972 (ID#:FAH197~1-N1002)
17.3672	RI=1636.6, 15.6135 min AKS1975 (ID#:AKS1975-N1068)
17.4088	RI=1640.3, 15.6669 min AKS1975 (ID#:AKS1975-N1036)
17.4139	RI=1640.3, 15.6669 min AKS1975 (ID#:AKS1975-N1036)
17.5825	RI=1645.8, 28.4907 min FAH388 (ID#:FAH388-N1036)
17.6505	Arabinose (MEOX/TMS) (ID#:FAH957-N1004)
17.6819	RI=1658.1, 15.9216 min AKS1975 (ID#:AKS1975-N1034)
17.8502	?? 1,4 - anhydro - b - D - glucopyranose (ID#:FAH0040-N1068)
17.8562	?? 1,4 - anhydro - b - D - glucopyranose (ID#:FAH0040-N1068)
17.8916	RI=1645.8, 28.4907 min FAH388 (ID#:FAH388-N1036)
17.8956	RI=1645.8, 28.4907 min FAH388 (ID#:FAH388-N1036)

17.9504	1,6 - anhydro - b - D - glucopyranose (levoglucosane - 3TMS) (ID#:FAH0040-N1064)
18.1055	?? RI=1687.4, 16.3403 min AKS1976 (ID#:AKS1976-N1128)
18.2270	? 1,6 -anhydro - D - galactopyranose (ID#:FAH0040-N1062)
18.2321	1,6 - anhydro - b - D - glucopyranose (levoglucosane - 3TMS) (ID#:FAH0040-N1064)
18.2422	?? 2,3,5 - trihyddroxy - 4H - pyran - 4 - one (ID#:OAB467~1-N1066)
18.2708	RI=1705.8, 16.4992 min FAH1972 (ID#:FAH197~1-N1010)
18.3919	?? 1,4 - anhydro - b - D - glucopyranose (ID#:FAH0040-N1068)
18.4175	RI=1710.3, 16.6591 min AKS1975 (ID#:AKS1975-N1032)
18.4560	? RI=1716.8, 16.7466 min AKS1974 (ID#:AKS1974-N1042)
18.7284	1,6 - anhydro - b - D - glucofuranose (ID#:FAH0040-N1070)
19.5857	RI=1796.1, 17.8199 min AKS1976 (ID#:AKS1976-N1110)
19.6890	RI=1796.1, 17.8199 min AKS1976 (ID#:AKS1976-N1110)
19.7463	?? RI=1245.3, 9.4662 min AKS1975 (ID#:AKS1975-N1050)
19.8083	? dihydroconiferyl alcohol (ID#:OAB466~1-N1025)
19.8242	3,4 - dihydroxy - benzoic acid, (ID#:NA)
20.2937	RI=1851.2, 18.5346 min AKS1976 (ID#:AKS1976-N1102)
20.4309	RI=1862.0, 18.6745 min AKS1974 (ID#:AKS1974-N1036)
20.7349	? RI=1884.7, 18.9674 min AKS1976 (ID#:AKS1976-N1162)
20.8224	syringic acid (ID#:Py_E_W_S4)
21.0927	Ferulic acid (trans) (ID#:MMA670-N1022)
21.1900	?? Mannose (MEOX/TMS) (ID#:FAH957-N1006)
21.3803	p - coumaric acid (ID#:MMA670-N1024)
21.5508	RI=1951.1, 19.8270 min AKS1975 (ID#:AKS1975-N1002)
21.7875	RI=1966.6, 20.0279 min AKS1976 (ID#:AKS1976-N1092)

22.0305	RI=2005.9, 20.5364 min AKS1975 (ID#:AKS1975-N1026)
22.0378	RI=2005.9, 20.5364 min AKS1975 (ID#:AKS1975-N1026)
22.2930	RI=2005.9, 20.5364 min AKS1975 (ID#:AKS1975-N1026)
22.4098	? RI=1394.6, 11.9462 min AKS1976 (ID#:AKS1976-N1142)
22.4829	RI=2034.1, 20.9016 min AKS1975 (ID#:AKS1975-N1022)
22.6474	RI=2034.1, 20.9016 min AKS1975 (ID#:AKS1975-N1022)
22.6806	palmitic acid (ID#:MMA671-N1042)
22.7508	RI=2041.4, 20.9961 min AKS1975 (ID#:AKS1975-N1020)
22.8925	? RI=2052.4, 21.1375 min AKS1975 (ID#:AKS1975-N1018)
22.9318	?? RI=1862.0, 18.6745 min AKS1974 (ID#:AKS1974-N1036)
23.0914	synapyl alcohol (cis) (ID#:Py_E_W_S3)
23.1460	? RI=2070.2, 21.3687 min AKS1974 (ID#:AKS1974-N1022)
23.2010	Ferulic acid (trans) (ID#:MMA670-N1022)
23.3688	? 1,2 - dihydroxyethene (ID#:TVL0020-N1006)
23.6218	RI=2108.4, 21.8630 min AKS1975 (ID#:AKS1975-N1012)
23.6682	RI=2096.3, 21.7057 min AKS1975 (ID#:AKS1975-N1014)
23.7141	? Caffeic acid (ID#:FAH383-N1028)
24.0611	RI=2142.6, 22.3047 min AKS1975 (ID#:AKS1975-N1006)
24.9182	? RI=2208.9, 23.1630 min AKS1975 (ID#:AKS1975-N1004)
24.9246	RI=2208.9, 23.1630 min AKS1975 (ID#:AKS1975-N1004)
26.3633	? 2,3 - dihydroxy - 2 - cyclopenten - 1 - one (ID#:OAB467~1-N1040)
26.5116	dehydroabietic acid (ID#:MMA671-N1038)
28.5928	? Heneicosane (IS) (ID#:629-94-7)
28.8323	RI=2510.2, 27.0619 min AKS1976 (ID#:AKS1976-N1076)
29.5276	? Heneicosane (IS) (ID#:629-94-7)

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30.4292
                  ? Heneicosane (IS) (ID#:629-94-7)
31.3003
                  ? Heneicosane (IS) (ID#:629-94-7)
32.1524
                  ? Heneicosane (IS) (ID#:629-94-7)
32.9824
                  ? Heneicosane (IS) (ID#:629-94-7)
QA/QC:
Instrument type: Ion Trap
Scan Direction None
Highest m/z detected = 799, high m/z setting = 800
High noise level. Median Signal (Noise Level) / Threshold=3.7.
Background (low vs. high retention time):
 median low RT S/N=49, high RT S/N=91
Solvent Tailing (m/z 84). Run begins at 5.00 min. Solvent falls below:
 S/N=2 before run
 S/N=1 at 5.01 min.
Column Bleed (m/z 207):
 median low RT S/N=5, high RT S/N=22
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