



7290B Investment Drive North Charleston, South Carolina 29417
 Phone: 866.272.0932 Fax: 866.509.5146 www.o2si.com



ISO 17025 Accredited Chemical Testing Lab
 Cert. No. 3031.01

Date Received: _____

Certificate of Analysis

Rev 0

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Catalog No.: 136202-01	Lot No.: 511006	Storage: ≤ -10 °C	Solvent: Acetonitrile	Exp. Date: 12-Sep-2027	Description: Custom Semivolatile Mix, 24-6202, 10 mg/L, 1 ml
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Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
alachlor	15972-60-8	99.3	552.1.1P	10.13 ± .24 mg/L
ametryne	834-12-8	98	913.286.1P	10.04 ± .24 mg/L
atrazine	1912-24-9	99.5	337.7.3P	10.15 ± .24 mg/L
atrazine desisopropyl	1007-28-9	99.02	1054.421.4.1P	9.902 ± .23 mg/L
azoxystrobin	131860-33-8	99.4	1802.286.1.3P	10.04 ± .31 mg/L
chlorotoluron	15545-48-9	98.88	1369.421.2.1P	9.888 ± .23 mg/L
cloquintocet-mexyl	99607-70-2	99.8	4328.7.1P	10.18 ± .24 mg/L
Command (clomazone)	81777-89-1	100	1052.421.1.1P	9.968 ± .24 mg/L
cymoxanil	57966-95-7	99.97	1858.421.1P	9.997 ± .24 mg/L
dimethomorph	110488-70-5	96	1860.286.1.4P	9.888 ± .25 mg/L
diuron	330-54-1	98.7	330.421.3.1P	9.87 ± .24 mg/L
ethoprophos (prophos)	13194-48-4	97.97	478.421.2.3P	9.993 ± .24 mg/L
fluazinam	79622-59-6	98.7	2397.421.4P	9.969 ± .25 mg/L
fludioxonil	131341-86-1	99.4	1816.421.2P	10.04 ± .24 mg/L
fluopicolide	239110-15-7	98.81	2938.421.4P	10.08 ± .24 mg/L
fluopyram	658066-35-4	99.66	4587.421.2.1P	10.17 ± .24 mg/L

*GC1: 61.9%, GC2: 36.3%

Certified By: _____

Joseph Blackmon-Dishaw
 Manufacture Date 13-Sep-2022

Follow all storage requirements, keep tightly closed when not in use, and use good laboratory practices when handling.

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Certificate of Analysis

Catalog No.: 136202-01

Lot No.: 511006

Expiration Date: 12-Sep-2027

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Neat Material Lot No.</u>	<u>Concentration</u>	
Guthion®	86-50-0	96.4	574.421.1.1P	9.929 ± .29	mg/L
Guthion Ethyl	2642-71-9	99.17	1621.421.2P	10.12 ± .24	mg/L
imidacloprid	138261-41-3	97.96	1533.286.1.4P	9.992 ± .31	mg/L
iprovalicarb	140923-17-7	98.15	1821.421.2.3P	9.815 ± .23	mg/L
isoproturon	34123-59-6	98.6	1368.7.1P	10.06 ± .24	mg/L
linuron	330-55-2	99.44	332.421.3P	9.944 ± .24	mg/L
Lontrel (clopyralid)	1702-17-6	96	1010.158.1P	9.888 ± .25	mg/L
malathion	121-75-5	97	474.286.1.5P	9.894 ± .3	mg/L



Certified By: Joseph Blackmon-Dishaw
Manufacture Date 13-Sep-2022

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Catalog No.: 136200-01	Lot No.: 506399	Storage: ≤ -10 °C	Solvent: Acetonitrile	Exp. Date: 20-Jul-2025	Description: Custom Semivolatile Mix, 30-6200, 10 mg/L, 1 ml
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Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
cyprodinil	121552-61-2	97	1807.286.1P	9.894 ± .18 mg/L
metalaxyl-m	70630-17-0	98.4	1058.421.5P	9.938 ± .16 mg/L
metazachlor	67129-08-2	98.58	1584.421.2.2P	9.957 ± .18 mg/L
metobromuron	3060-89-7	99.5	1365.3.2P	10.05 ± .16 mg/L
S-metolachlor	87392-12-9	98.56	2804.421.1.1P	10.15 ± .16 mg/L
metrafenone	220899-03-6	99.7	2922.421.3.1P	10.07 ± .19 mg/L
metribuzin	21087-64-9	98	1004.286.1P	9.996 ± .25 mg/L
napropamide	15299-99-7	98.5	1173.286.1P	10.15 ± .19 mg/L
oxadiazon	19666-30-9	99.5	561.286.1.1P	9.95 ± .18 mg/L
oxyfluorfen	42874-03-3	98	562.286.1P	9.996 ± .25 mg/L
penconazol	66246-88-6	98.8	1657.421.4P	9.979 ± .16 mg/L
pendimethalin	40487-42-1	99.5	1254.7.1P	10.05 ± .16 mg/L
picoxystrobin	117428-22-5	99.04	3765.421.2.3P	10 ± .2 mg/L
Pirimicarb	23103-98-2	99.57	1636.421.4P	9.957 ± .18 mg/L
Pirimiphos-ethyl	23505-41-1	99.6	1654.1.2.3P	9.86 ± .15 mg/L
prochloraz	67747-09-5	98	1652.7.2P	9.898 ± .15 mg/L

S. Hunter

Certified By: _____

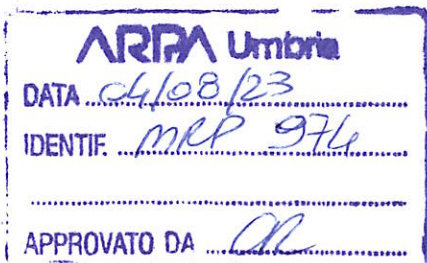
Scott Hunter
Manufacture Date 21-Jul-2023

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Certificate of Analysis

Catalog No.: 136200-01

Lot No.: 506399

Expiration Date: 20-Jul-2025

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
propamocarb	24579-73-5	96.92	2298.421.3.1P	9.983 ± .19 mg/L
Propiconazol (mixture of isomers)	60207-90-1	97.82	1064.286.1.2P	10.08 ± .25 mg/L
propyzamide (pronamide)	23950-58-5	97.1	296.7.1.1P	10.1 ± .16 mg/L
pyraclostrobin	175013-18-0	98	1920.286.2P	9.898 ± .25 mg/L
pyrimethanil	53112-28-0	97	1185.286.1.3P	9.894 ± .25 mg/L
simazine	122-34-9	99.9	916.29.1P	10.09 ± .16 mg/L
spiroxamine (mixture of isomers)	118134-30-8	98	1838.286.1.2P	9.996 ± .18 mg/L
Systhane™	88671-89-0	99.9	1066.421.2P	9.99 ± .16 mg/L
tebuconazol (Folicur)	107534-96-3	99.5	1620.7.2P	10.15 ± .16 mg/L
terbuthylazine	5915-41-3	99.28	684.421.4.2P	10.03 ± .16 mg/L
terbuthylazine-desethyl	30125-63-4	98	1642.286.1.2P	9.898 ± .18 mg/L
terbutryne	886-50-0	98.15	915.421.3.3P	9.913 ± .16 mg/L
thiabendazole	148-79-8	99.5	1205.7.2P	10.05 ± .16 mg/L
zoxamide	156052-68-5	98.08	2814.421.3.1P	9.906 ± .16 mg/L

*GC1:37%, GC2:62%

*GC1: 45%, GC2: 55%

S. Hunter

Certified By: _____

Scott Hunter
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Catalog No.: 139680-01	Lot No.: 501373	Storage: ≤ -10 °C	Solvent: Acetonitrile	Exp. Date: 16-May-2024	Description: Custom Semivolatile Mix, 4-9680, 10 mg/L, 1 ml
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Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
bentazon	25057-89-0	99.81	1405.421.2P	9.981 ± .16 mg/L
2,4-dichlorophenoxyacetic acid (2,4-D)	94-75-7	99.5	126.3.2P	9.851 ± .18 mg/L
MCPA acid	94-74-6	96.5	865.7.2.1P	9.94 ± .15 mg/L
MCPP (Mecoprop)	93-65-2	99	2571.282.1P	9.9 ± .18 mg/L



Kerry Robinson

Certified By: _____

Kerry Robinson
Manufacture Date 27-Apr-2023

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Catalog No.: 126016-03 **Lot No.:** 506134 **Storage:** ≤ -10 °C **Solvent:** P/T Methanol **Exp. Date:** 6-Aug-2024 **Description:** Custom VOC Mix, 3-2, 100 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
2-chlorotoluene	95-49-8	99.5	157.7.1P	99.7 ± 1.85 mg/L
3-chlorotoluene	108-41-8	99.6	1354.7.1P	100.4 ± 2.37 mg/L
4-chlorotoluene	106-43-4	99.9	158.9.3P	100.1 ± 1.27 mg/L



Certified By: _____
 Sanquetta Coakley
 Manufacture Date 18-Jul-2023

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Catalog No.: 110345-05	Lot No.: 507243	Storage: ≤ -10 °C	Solvent: Acetone	Exp. Date: 5-Sep-2027	Description: 525.2 Internal Standard Solution, 500 mg/L, 1 ml
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Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
acenaphthene-d10	15067-26-2	99	1.120.2.1P	499 ± 9.51 mg/L
chrysene-d12	1719-03-5	99.9	2.1.2P	499.5 ± 9.52 mg/L
phenanthrene-d10	1517-22-2	98.8	6.120.3.1P	499.9 ± 9.53 mg/L



Andrea Schaible

Certified By: _____
Andrea Schaible
Manufacture Date 6-Sep-2022

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Catalog No.: 136203-01	Lot No.: 488590	Storage: ≤ -10 °C	Solvent: Methanol	Exp. Date: 15-Mar-2024	Description: Custom Semivolatle Mix, 22-6203, 10 mg/L, 1 ml
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Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
acelonifen	74070-46-5	99.33	2859.421.1P	10.03 ± .19 mg/L
Benfluralin (Benefin)	1861-40-1	99.2	553.3.4P	10.02 ± .16 mg/L
carbaryl	63-25-2	98	1653.286.1.3P	9.937 ± .16 mg/L
chlorpyrifos-methyl	5598-13-0	99.67	1080.421.4.6P	9.867 ± .16 mg/L
chlorpyrifos	2921-88-2	99.4	543.421.3P	10.01 ± .13 mg/L
Demeton O	298-03-3	95	2493.494.1P	10.07 ± .2 mg/L
dichlorvos	62-73-7	98.75	572.421.3.2P	9.974 ± .31 mg/L
dimethoate	60-51-5	99.16	283.286.1.3P	9.956 ± .12 mg/L
fenhexamid	126833-17-8	98.94	1830.421.3P	9.894 ± .2 mg/L
fenitrothion	122-14-5	95	1019.286.1.3P	9.975 ± .18 mg/L
fenthion	55-38-9	94.76	1561.286.2P	10.04 ± .25 mg/L
Guthion®	86-50-0	96.4	574.421.1.1P	9.929 ± .26 mg/L
Guthion Ethyl	2642-71-9	99.45	1621.421.1.2P	10.04 ± .22 mg/L
methamidophos	10265-92-6	99.16	479.421.7.3P	10.15 ± .31 mg/L
methyl parathion	298-00-0	98.2	284.421.2P	10.11 ± .28 mg/L
metribuzin	21087-64-9	98	1004.286.1P	9.996 ± .23 mg/L

APPROVED
DATE: 11/10/2022
IDENTITY: 136203-01
APPROVAL: [Signature]

Kerry Robinson

Certified By: _____

Kerry Robinson
Manufacture Date 12-Sep-2022

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Certificate of Analysis

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Catalog No.: 136203-01

Lot No.: 488590

Expiration Date: 15-Mar-2024

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Neat Material Lot No.</u>	<u>Concentration</u>	
omethoate	1113-02-6	93.4	1614.421.3P	10.09 ± .25	mg/L
oxadiazon	19666-30-9	99.5	561.286.1.1P	10.05 ± .18	mg/L
oxydemeton-methyl (DEMETON-S-METHYL SULFOXIDE)	301-12-2	98.5	2310.3.14P	10.05 ± .2	mg/L
oxyfluorfen	42874-03-3	98	562.286.1P	9.996 ± .25	mg/L
parathion	56-38-2	99.1	292.421.3P	9.91 ± .2	mg/L
phosdrinTM (mevinphos)	7786-34-7	96.64	477.421.2.2P	9.954 ± .16	mg/L

*GC1: 71.1%, GC2: 28.9%



Certified By: _____

Kerry Robinson

Manufacture Date 12-Sep-2022

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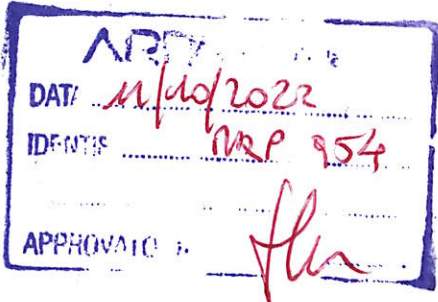
Certificate of Analysis

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Catalog No.: 134717-01	Lot No.: 488430	Storage: ≤ -10 °C	Solvent: Acetone w/ 0.1% Formic Acid	Exp. Date: 21-Sep-2023	Description: Custom Pesticide Mix, 30-4685, 10 mg/L, 5 x 1 mL
-5PAK					

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
✓ aldrin	309-00-2	98.2	258.421.2P	9.977 ± .2 mg/L
✓ a-BHC	319-84-6	99.9	237.421.3P	10.13 ± .21 mg/L
✓ b-BHC	319-85-7	98.4	259.421.2.1P	10.07 ± .19 mg/L
✓ g-BHC	58-89-9	99.7	238.1.4P	10.01 ± .2 mg/L
bifentoxin	42576-02-3	99.43	2860.421.1.1P	9.844 ± .16 mg/L
✓ chlordane (mix of isomers) <i>OK</i>	57-74-9	99	263.3.1088.3.1P	9.9 ± .18 mg/L
✓ chlorfenvinphos (mixture of z and e isomers)	470-90-6	98.85	925.421.1.1P	10.08 ± .16 mg/L
cypermethrin (mix of isomers) <i>OK</i>	52315-07-8	99.6	1624.9.1P	10.01 ± .19 mg/L
		*GC1: 29.6%, GC2: 24.7%, GC3&4: 32.9%		
✓ o,p'-DDD	53-19-0	99.1	235.516.1P	10.01 ± .17 mg/L
✓ p,p'-DDD	72-54-8	99.4	234.7.1P	10.04 ± .17 mg/L
✓ o,p'-DDE	3424-82-6	98.6	396.286.1.1P	9.959 ± .26 mg/L
✓ p,p'-DDE	72-55-9	99.9	236.7.1.8P	10.09 ± .17 mg/L
✓ o,p'-DDT	789-02-6	98.3	395.421.4P	10.03 ± .18 mg/L
✓ p,p'-DDT	50-29-3	97.8	233.1.2P	9.976 ± .17 mg/L
deltamethrin	52918-63-5	99.73	1622.421.4P	9.873 ± .2 mg/L
✓ dieldrin	60-57-1	99.8	240.421.4P	9.98 ± .22 mg/L



Brianna Smith

Certified By: _____

Brianna Smith
Manufacture Date 1-Sep-2022

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Certificate of Analysis

Catalog No.: 134717-01-5PAK

Lot No.: 488430

Expiration Date: 21-Sep-2023

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Neat Material Lot No.</u>	<u>Concentration</u>	
✓ endosulfan (mixture of isomers) <i>OK</i>	115-29-7	99.6	2476.3.2P	10.06 ± .18	mg/L
✓ endrin	72-20-8	97	255.286.1P	9.972 ± .2	mg/L
✓ Folpet (Folpel)	133-07-3	99.45	871.421.1P	9.984 ± .15	mg/L
✓ heptachlor	76-44-8	99.3	261.421.4P	10.11 ± .2	mg/L
✓ heptachlor epoxide isomer B	1024-57-3	99.3	262.421.3P	9.99 ± .2	mg/L
✓ hexachlorobenzene	118-74-1	99	46.158.4P	10.1 ± .2	mg/L
✓ irgarol (cybutryne)	28159-98-0	98.78	4586.286.1.2P	9.977 ± .26	mg/L
✓ isodrin	465-73-6	99.9	242.1.2.2P	9.99 ± .18	mg/L
✓ kelthane ® (dicofol)	115-32-2	99.1	559.421.3P	9.811 ± .23	mg/L
✓ pentachlorobenzene	608-93-5	99.5	51.1.1.3P	10.15 ± .17	mg/L
✓ permethrin (mixture of isomers) <i>OK</i>	52645-53-1	99.73	1184.421.5.1P	9.973 ± .17	mg/L
		<small>*cis: 58%, trans: 42%</small>			
✓ quinoxifen	124495-18-7	99.9	1836.286.1P	9.99 ± .2	mg/L
✓ tefluthrin	79538-32-2	99.8	2178.421.1P	9.904 ± .18	mg/L
✓ trifluralin	1582-09-8	98.39	335.421.3P	10.04 ± .18	mg/L

Brianna Smith

Certified By: _____

Brianna Smith
 Manufacture Date 1-Sep-2022

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Catalog No.: 139468-01	Lot No.: 506395	Storage: ≤ -10 °C -5PAK	Solvent: Acetonitrile	Exp. Date: 20-Jul-2025	Description: Custom Pesticide Mixture 14-9468 10 ug/ml 5 x 1 ml
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Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
acлонifen	74070-46-5	99	2859.286.1P	9.999 ± .18 ug/ml
Benfluralin (Benefin)	1861-40-1	99.5	553.3.5P	9.95 ± .16 ug/ml
carbaryl	63-25-2	98.81	1653.421.3.1P	9.98 ± .17 ug/ml
chlorfenvinphos (mixture of z and e isomers)	470-90-6	99.52	925.421.4P	10.05 ± .16 ug/ml
chlorpyrifos-methyl	5598-13-0	99.67	1080.421.4.4P	9.967 ± .16 ug/ml
chlorpyrifos	2921-88-2	99.54	543.421.6P	10.05 ± .16 ug/ml
dieldrin	60-57-1	99.8	240.421.4P	10.08 ± .19 ug/ml
endrin	72-20-8	95	255.286.1.1P	9.975 ± .25 ug/ml
fenitrothion	122-14-5	95	1019.286.1.3P	9.975 ± .18 ug/ml
fenthion	55-38-9	94.76	1561.286.2P	10.14 ± .25 ug/ml
Guthion®	86-50-0	99.1	574.3.6P	10.01 ± .16 ug/ml
Guthion Ethyl	2642-71-9	99.45	1621.421.1.4P	10.04 ± .18 ug/ml
irgarol (cybutryne)	28159-98-0	98	4586.286.1.1P	9.996 ± .18 ug/ml
quinoxifen	124495-18-7	99.82	1836.421.2P	10.08 ± .16 ug/ml

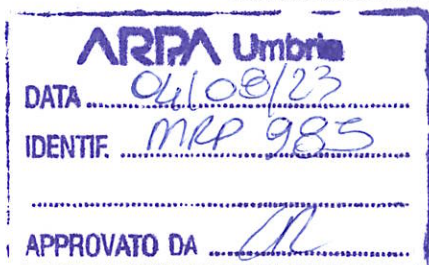
*GCMS = E: 16.03%, Z: 72.05%

Kerry Robinson

Certified By: _____
 Kerry Robinson
 Manufacture Date 21-Jul-2023

Follow all storage requirements, keep tightly closed when not in use, and use good laboratory practices when handling. This Reference Material was manufactured, produced, and/or certified under a quality management system by an ISO/IEC accredited testing laboratory. Certificates of accreditation can be reviewed by visiting www.o2si.com.

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically. The stated uncertainty is the expanded uncertainty with a coverage factor of two to give a 95% confidence level.



Date Received: _____

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Catalog No.: 111364-08	Lot No.: 514023	Storage: ≤ -10 °C	Solvent: Acetone	Exp. Date: 13-Dec-2028	Description: Hydrocarbons in Acetone, 500 mg/L, 1 ml
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Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
mineral oil type A	68476-34-6	100	4320.363.1P	502 ± 3.4 mg/L
mineral oil type B	8042-47-5	100	4322.1.1P	494 ± 5.95 mg/L




Certified By: _____

Joseph Blackmon-Dishaw
Manufacture Date 15-Dec-2023

Follow all storage requirements, keep tightly closed when not in use, and use good laboratory practices when handling.
This Reference Material was manufactured, produced, and/or certified under a quality management system by an ISO/IEC accredited testing laboratory. Certificates of accreditation can be reviewed by visiting www.o2si.com.

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.
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Date Received: _____

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Catalog No.: 122351-01 **Lot No.:** 506136 **Storage:** ≤ -10 °C **Solvent:** P/T Methanol **Exp. Date:** 2-Aug-2024 **Description:** Custom Volatile Mix, 7-2351, 100 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
propylene	79-46-9	97.7	219.7.1P	99.92 ± 1.85 mg/L
acetonitrile	75-05-8	99.98	204.24.1P	99.83 ± 1.69 mg/L
acrylonitrile	107-13-1	99	210.1.7P	99.83 ± 1.91 mg/L
methyl acrylonitrile	126-98-7	98	212.286.1.1P	99.96 ± 1.96 mg/L
nitrobenzene	98-95-3	100	94.7.1P	99.23 ± 1.84 mg/L
propionitrile	107-12-0	99.7	218.7.2P	99.76 ± 2.61 mg/L
pyridine	110-86-1	100	101.24.1P	100.7 ± 1.86 mg/L



Andrea Schaible

Certified By: _____

Andrea Schaible

Manufacture Date 14-Jul-2023

Follow all storage requirements, keep tightly closed when not in use, and use good laboratory practices when handling. This Reference Material was manufactured, produced, and/or certified under a quality management system by an ISO/IEC accredited testing laboratory. Certificates of accreditation can be reviewed by visiting www.o2si.com.

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically. The stated uncertainty is the expanded uncertainty with a coverage factor of two to give a 95% confidence level.

Date Received: _____

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Catalog No.: 111159-03
Lot No.: 483721
Storage: ≤ -10 °C
-05

Solvent:
Methanol

Exp. Date:
22-Jun-2024

Description:
Custom Phenol Mix, 7-156,
100 mg/L, 5 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration
2-chlorophenol	95-57-8	99.8	103.7.1P	101.8 ± 1.62 mg/L
3-chlorophenol	108-43-0	98.8	1145.421.1P	98.8 ± 1.74 mg/L
4-chlorophenol	106-48-9	99.7	1146.7.1P	101.7 ± 1.62 mg/L
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	100.6 ± 1.61 mg/L
pentachlorophenol	87-86-5	99	110.1.7P	101 ± 1.61 mg/L
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	100.4 ± 1.59 mg/L
2,4,6-trichlorophenol	88-06-2	99.69	113.421.1P	99.69 ± 1.69 mg/L



Certified By: _____

Taneeea Pyatt
Manufacture Date 23-Jun-2022

Follow all storage requirements, keep tightly closed when not in use and use good laboratory practices when handling.
This Reference Material was manufactured, produced, and/or certified under a quality management system that is accredited to ISO 17035 and ISO/IEC 17025.

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.
The stated uncertainty is the expanded uncertainty with a coverage factor two to give a 95% confidence level.