

Certificate of Analysis

8270 BNA Mix

Catalog Number: C-701
Lot Number: 210128
Manufacture Date: 01/28/2021

Expiration: 01/31/2024
Solvent: Methylene Chloride
Hazards: Irritant, Carcinogen

<u>Analyte</u>	<u>CAS</u>	<u>Analyte Purity</u>	<u>Gravimetric Concentration (ug/mL)</u>
Acenaphthylene	208-96-8	95.6%	1000.0 ± 9.31
Hexachlorocyclopentadiene	77-47-4	95.9%	1000.1 ± 9.31
Acenaphthene	83-32-9	100%	1000.2 ± 9.31
Anthracene	120-12-7	96.6%	1000.0 ± 9.31
Benz(a)anthracene	56-55-3	96.0%	1000.2 ± 9.31
Benzo(a)pyrene	50-32-8	100%	1000.2 ± 9.31
Benzo(b)fluoranthene	205-99-2	100%	1000.1 ± 9.31
Benzo(k)fluoranthene	207-08-9	100%	1000.1 ± 9.31
Benzo(g,h,i)perylene	191-24-2	97.1%	1000.0 ± 9.31
Chrysene	218-01-9	99.9%	999.9 ± 9.31
Dibenz(a,h)anthracene	53-70-3	99.9%	1000.0 ± 9.31
Fluoranthene	206-44-0	99.8%	1000.0 ± 9.31
Fluorene	86-73-7	98.0%	1000.1 ± 9.31
Indeno(1,2,3-c,d)pyrene	193-39-5	99.2%	1000.1 ± 9.31
Naphthalene	91-20-3	99.8%	1000.4 ± 9.31
Phenanthrene	85-01-8	98.7%	1000.1 ± 9.31
Pyrene	129-00-0	99.7%	1000.1 ± 9.31
Butyl benzyl phthalate	85-68-7	99.5%	1000.3 ± 9.31
Di-n-octyl phthalate	117-84-0	99.6%	1000.1 ± 9.31
bis(2-Ethylhexyl)phthalate	117-81-7	100%	1000.4 ± 9.31
2-Chloronaphthalene	91-58-7	99.9%	1000.2 ± 9.31
2,4-Dinitrotoluene	121-14-2	99.8%	1000.1 ± 9.31
2,6-Dinitrotoluene	606-20-2	99.9%	1000.4 ± 9.31
Hexachlorobenzene	118-74-1	99.4%	1000.3 ± 9.31
Hexachloroethane	67-72-1	99.9%	1000.6 ± 9.32
Nitrobenzene	98-95-3	99.9%	1000.0 ± 9.31
Isophorone	78-59-1	99.4%	1000.0 ± 9.31
Hexachlorobutadiene	87-68-3	97.7%	1000.0 ± 9.31
Dibutyl phthalate	84-74-2	94.9%	1000.0 ± 9.31
Dimethyl phthalate	131-11-3	100%	1000.0 ± 9.31



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Table with 4 columns: Analyte, CAS, Analyte Purity, Gravimetric Concentration (ug/mL). Lists various chemical compounds and their specifications.





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<u>Analyte</u>	<u>CAS</u>	<u>Analyte Purity</u>	<u>Gravimetric Concentration</u> (ug/mL)		
m-Cresol	108-39-4	99.9%	500.0	±	4.65
2,4-Dimethylphenol	105-67-9	99.8%	1000.0	±	9.31
2-Chlorophenol	95-57-8	99.8%	1000.0	±	9.31
2-Nitroaniline	88-74-4	100%	1000.1	±	9.31
3-Nitroaniline	99-09-2	100%	1000.0	±	9.31
4-Nitroaniline	100-01-6	100%	1000.1	±	9.31
2,3,4,6-Tetrachlorophenol	58-90-2	93.3%	1000.1	±	9.31
2,3,5,6-Tetrachlorophenol	935-95-5	99.8%	1000.1	±	9.31

This certified reference material (CRM) was manufactured and certified by NSI Lab Solutions according to quality procedures meeting our accreditation requirements of ISO 17034:2016 and ISO/IEC 17025:2017. Our certificates and scopes of accreditation may be viewed at www.anab.org.

Packaging, Storage, Instructions For Use

This CRM is packaged in a flame-sealed ampule and must be stored at -10°C to -20°C. To use this CRM, allow it to reach room temperature. Mix it gently by inversion. Inspect for precipitate. If present, sonicate for a few minutes to redissolve. Open the ampule and withdraw an aliquot appropriate for your application.

Traceability Information

Analyte Source Materials: The highest purity analyte source materials are used in the manufacture of this standard. The actual purity is referenced above.

Method: This CRM was verified Volumetrically/Gravimetrically and Analytically.

Balance: All analytical balances are calibrated on a semiannual basis by an ISO 17025 accredited calibration laboratory and are traceable to NIST. Traceable Calibration Certificate available upon request.

All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request.



ISO 9001:2015 UL Registered Firm - Certificate # 10002343 QM15

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Thermometer: All thermometers are NIST traceable through thermometers that are calibrated annually by an ISO 17025 accredited calibration laboratory.

Glassware: All glassware used in the manufacture of our standards is Class A. An in-house standard operating procedure is used to verify all glassware prior to it being placed into service. Volumetric pipetors are calibrated every four months by an ISO 17025 accredited calibration laboratory.

Intended Uses

- Calibration of analytical instruments
- Validation of analytical methods
- Preparation of working level reference materials, i.e. "check standards"
- Detection limit studies

Homogeneity

This CRM was thoroughly mixed in production and is guaranteed homogenous.

Ken Grzybowski

Ken Grzybowski, Organics Department Manager

Mark Hammersla

Mark Hammersla, President