

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 19/02/2018

Revision date: \_\_\_\_\_

Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : Custom 8270 Calibration Standard  
Product code : AL0-130213  
Product group : Trade product

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Main use category : Laboratory Use  
Industrial/Professional use spec : Industrial  
For professional use only  
Use of the substance/mixture : Certified reference material for laboratory use only

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Phenova  
6390 Joyce Dr. Suite 100  
80403 Golden, CO - United States  
T 1-866-942-2978 - F 1-866-283-0269  
[info@phenova.com](mailto:info@phenova.com) - [www.phenova.com](http://www.phenova.com)

#### 1.4. Emergency telephone number

Emergency number : ChemTel Assistance (US/Canada) 1-800-255-3924  
ChemTel Assistance (International) +1 813-248-0585

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2	H225
Acute Tox. 4 (Oral)	H302
Acute Tox. 3 (Dermal)	H311
Muta. 1B	H340
Carc. 1B	H350
STOT SE 2	H371
STOT RE 2	H373
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

##### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.2; R45  
Muta.Cat.2; R46  
F; R11  
E; R2  
T; R23/24/25  
Xn; R68/20/21/22  
Xn; R48/20/21/22  
N; R50/53  
R44

Full text of R-phrases: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 2.2. Label elements

#### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazardous ingredients :

acenaphthylene; azobenzene; benzo[a]anthracene; benzo[a]pyrene; Benzo(b)fluoranthene; benzo[k]fluoranthene; bis(2-chloroethoxy) methane; bis(2-chloroethyl) ether; Bis(2-chloroisopropyl) ether; 4-chloroaniline; 2-Methylphenol; 3-Methylphenol; 4-Methylphenol; 2-Nitroaniline; 3-Nitroaniline; 4-Nitroaniline; nitrobenzene; N-Nitrosodimethylamine; N-Nirosodi-n-propylamine; 2,3,4,5,6-pentachlorophenol; phenol; 2,3,4,6-tetrachlorophenol; 2,3,5,6-tetrachlorophenol; chrysene; dibenz(a,h)anthracene; 2,4-dichlorophenol; 2,4-Dimethylphenol; 1,2-dinitrobenzene; 1,3-dinitrobenzene; 1,4-dinitrobenzene; 4,6-Dinitro-2-methylphenol; 2,4-dinitrophenol; 2,4-dinitrotoluene; 2,6-dinitrotoluene; hexachlorobenzene; hexachlorobuta-1,3-diene; Hexachlorocyclopentadiene; indeno(1,2,3-cd)pyrene; aniline; methanol

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapor  
H302 - Harmful if swallowed  
H311 - Toxic in contact with skin  
H340 - May cause genetic defects  
H350 - May cause cancer  
H371 - May cause damage to organs  
H373 - May cause damage to organs through prolonged or repeated exposure  
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P233 - Keep container tightly closed  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
P270 - Do not eat, drink or smoke when using this product  
P273 - Avoid release to the environment  
P280 - Wear eye protection, protective clothing, protective gloves  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water  
P308+P313 - IF exposed or concerned: Get medical advice/attention  
P361+P364 - Take off immediately all contaminated clothing and wash it before reuse  
P370+P378 - In case of fire: Use media other than water to extinguish  
P391 - Collect spillage  
P403+P235 - Store in a well-ventilated place. Keep cool  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

EUH phrases :

EUH208 - Contains benzo[a]pyrene(50-32-8), 4-chloroaniline(106-47-8), 4-chloro-3-methylphenol(59-50-7), phenanthrene(85-01-8), 4,6-dinitro-o-cresol(534-52-1), aniline(62-53-3). May produce an allergic reaction  
EUH044 - Risk of explosion if heated under confinement

No labeling applicable

### 2.3. Other hazards

Contains PBT substances  $\geq$  0.1% assessed in accordance with REACH, Annex XIII

Contains PBT/vPvB substances  $\geq$  0.1% assessed in accordance with REACH, Annex XIII

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methylene Chloride (Component)	(CAS No) 75-09-2 (EC-No.) 200-838-9 (EC index no) 602-004-00-3	82	Carc. 2, H351
methanol	(CAS No) 67-56-1 (EC-No.) 200-659-6 (EC index no) 603-001-00-X	3	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
di-n-octyl phthalate	(CAS No) 117-84-0 (EC-No.) 204-214-7	0.2	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
acenaphthene (Component)	(CAS No) 83-32-9 (EC-No.) 201-469-6	0.2	Eye Irrit. 2, H319 Aquatic Chronic 2, H411
acenaphthylene (Component)	(CAS No) 208-96-8 (EC-No.) 205-917-1	0.2	Acute Tox. 1 (Dermal), H310
anthracene (Component) substance listed as REACH Candidate	(CAS No) 120-12-7 (EC-No.) 204-371-1	0.2	Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
azobenzene (Component)	(CAS No) 103-33-3 (EC-No.) 203-102-5 (EC index no) 611-001-00-6	0.2	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Muta. 2, H341 Carc. 1B, H350 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
benzo[a]anthracene (Component)	(CAS No) 56-55-3 (EC-No.) 200-280-6 (EC index no) 601-033-00-9	0.2	Carc. 1B, H350 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
benzo[a]pyrene (Component) substance listed as REACH Candidate (Benzo[def]chrysene)	(CAS No) 50-32-8 (EC-No.) 200-028-5 (EC index no) 601-032-00-3	0.2	Skin Sens. 1, H317 Muta. 1B, H340 Carc. 1B, H350 Repr. 1B, H360FD Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
Benzo(b)fluoranthene (Component)	(CAS No) 205-99-2 (EC-No.) 205-911-9 (EC index no) 601-034-00-4	0.2	Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
benzo(ghi)perylene (Component)	(CAS No) 191-24-2 (EC-No.) 205-883-8	0.2	Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410
benzo[k]fluoranthene (Component)	(CAS No) 207-08-9 (EC-No.) 205-916-6 (EC index no) 601-036-00-5	0.2	Carc. 1B, H350 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
benzyl butyl phthalate (Component) substance listed as REACH Candidate (Benzyl butyl phthalate (BBP)) substance listed in REACH Annex XIV (Benzyl butyl phthalate (BBP))	(CAS No) 85-68-7 (EC-No.) 201-622-7 (EC index no) 607-430-00-3	0.2	Repr. 1B, H360D Aquatic Acute 1, H400 Aquatic Chronic 1, H410
bis(2-chloroethoxy) methane (Component)	(CAS No) 111-91-1 (EC-No.) 203-920-2	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2, H319
bis(2-chloroethyl) ether (Component)	(CAS No) 111-44-4 (EC-No.) 203-870-1 (EC index no) 603-029-00-2	0.2	Flam. Liq. 3, H226 Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Carc. 2, H351
Bis(2-chloroisopropyl) ether (Component)	(CAS No) 108-60-1 (EC-No.) 203-598-3	0.2	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
bis(2-ethylhexyl)adipate (Component)	(CAS No) 103-23-1 (EC-No.) 203-090-1	0.2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400
Bis(2-ethylhexyl) phthalate (Component) substance listed as REACH Candidate (Bis (2-ethyl(hexyl)phthalate) (DEHP)) substance listed in REACH Annex XIV (Bis(2-ethylhexyl) phthalate (DEHP))	(CAS No) 117-81-7 (EC-No.) 204-211-0 (EC index no) 607-317-00-9	0.2	Repr. 1B, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-bromodiphenyl ether (Component)	(CAS No) 101-55-3 (EC-No.) 202-952-4	0.2	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
carbazole (Component)	(CAS No) 86-74-8 (EC-No.) 201-696-0	0.2	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-chloroaniline (Component)	(CAS No) 106-47-8 (EC-No.) 203-401-0 (EC index no) 612-137-00-9	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-chloro-3-methylphenol (Component)	(CAS No) 59-50-7 (EC-No.) 200-431-6 (EC index no) 604-014-00-3	0.2	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
2-chlorophenol (Component)	(CAS No) 95-57-8 (EC-No.) 202-433-2 (EC index no) 604-008-00-0	0.2	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
isophorone (Component)	(CAS No) 78-59-1 (EC-No.) 201-126-0 (EC index no) 606-012-00-8	0.2	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335
1-methylnaphthalene (Component)	(CAS No) 90-12-0 (EC-No.) 201-966-8	0.2	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
2-methylnaphthalene (Component)	(CAS No) 91-57-6 (EC-No.) 202-078-3	0.2	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
2-Methylphenol (Component)	(CAS No) 95-48-7 (EC-No.) 202-423-8 (EC index no) 604-004-00-9	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314
naphthalene (Component)	(CAS No) 91-20-3 (EC-No.) 202-049-5 (EC index no) 601-052-00-2	0.2	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-Nitroaniline (Component)	(CAS No) 88-74-4 (EC-No.) 201-855-4 (EC index no) 612-012-00-9	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Chronic 3, H412
3-Nitroaniline (Component)	(CAS No) 99-09-2 (EC-No.) 202-729-1 (EC index no) 612-012-00-9	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Chronic 3, H412
4-Nitroaniline (Component)	(CAS No) 100-01-6 (EC-No.) 202-810-1 (EC index no) 612-012-00-9	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Chronic 3, H412
nitrobenzene (Component) substance listed as REACH Candidate	(CAS No) 98-95-3 (EC-No.) 202-716-0 (EC index no) 609-003-00-7	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Carc. 2, H351 Repr. 1B, H360F STOT RE 1, H372 Aquatic Chronic 3, H412
N-Nitrosodimethylamine (Component)	(CAS No) 62-75-9 (EC-No.) 200-549-8 (EC index no) 612-077-00-3	0.2	Acute Tox. 2 (Oral), H300 Acute Tox. 2 (Inhalation), H330 Carc. 1B, H350 STOT RE 1, H372 Aquatic Chronic 2, H411
N-Nirosodi-n-propylamine (Component)	(CAS No) 621-64-7 (EC-No.) 210-698-0 (EC index no) 612-098-00-8	0.2	Acute Tox. 4 (Oral), H302 Carc. 1B, H350 Aquatic Chronic 2, H411
2,3,4,5,6-pentachlorophenol (Component)	(CAS No) 87-86-5 (EC-No.) 201-778-6 (EC index no) 604-002-00-8	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
phenanthrene (Component)	(CAS No) 85-01-8 (EC-No.) 201-581-5	0.2	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
phenol (Component)	(CAS No) 108-95-2 (EC-No.) 203-632-7 (EC index no) 604-001-00-2	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Muta. 2, H341 STOT RE 2, H373
pyrene (Component)	(CAS No) 129-00-0 (EC-No.) 204-927-3	0.2	Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
pyridine (Component) substance with a Community workplace exposure limit	(CAS No) 110-86-1 (EC-No.) 203-809-9 (EC index no) 613-002-00-7	0.2	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,3,4,6-tetrachlorophenol (Component)	(CAS No) 58-90-2 (EC-No.) 200-402-8 (EC index no) 604-013-00-8	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
2,3,5,6-tetrachlorophenol (Component)	(CAS No) 935-95-5 (EC-No.) 213-310-8	0.2	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319
1,2,4-trichlorobenzene (Component)	(CAS No) 120-82-1 (EC-No.) 204-428-0 (EC index no) 602-087-00-6	0.2	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4,5-trichlorophenol (Component)	(CAS No) 95-95-4 (EC-No.) 202-467-8 (EC index no) 604-017-00-X	0.2	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4,6-trichlorophenol (Component)	(CAS No) 88-06-2 (EC-No.) 201-795-9 (EC index no) 604-018-00-5	0.2	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-Chlorodiphenyl ether (Component)	(CAS No) 7005-72-3 (EC-No.) 230-281-7	0.2	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
chrysene (Component)	(CAS No) 218-01-9 (EC-No.) 205-923-4 (EC index no) 601-048-00-0	0.2	Muta. 2, H341 Carc. 1B, H350 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)
dibenz(a,h)anthracene (Component)	(CAS No) 53-70-3 (EC-No.) 200-181-8 (EC index no) 601-041-00-2	0.2	Carc. 1B, H350 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410
dibenzofuran (Component)	(CAS No) 132-64-9 (EC-No.) 205-071-3	0.2	Aquatic Chronic 2, H411
1,2-dichlorobenzene (Component)	(CAS No) 95-50-1 (EC-No.) 202-425-9 (EC index no) 602-034-00-7	0.2	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,3-dichlorobenzene (Component)	(CAS No) 541-73-1 (EC-No.) 208-792-1 (EC index no) 602-067-00-7	0.2	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
1,4-dichlorobenzene (Component)	(CAS No) 106-46-7 (EC-No.) 203-400-5 (EC index no) 602-035-00-2	0.2	Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4-dichlorophenol (Component)	(CAS No) 120-83-2 (EC-No.) 204-429-6 (EC index no) 604-011-00-7	0.2	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Aquatic Chronic 2, H411
2,4-Dimethylphenol (Component)	(CAS No) 105-67-9 (EC-No.) 203-321-6 (EC index no) 604-006-00-X	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Aquatic Chronic 2, H411
dibutyl phthalate (Component) substance listed as REACH Candidate (Dibutyl phthalate (DBP)) substance listed in REACH Annex XIV (Dibutyl phthalate (DBP))	(CAS No) 84-74-2 (EC-No.) 201-557-4 (EC index no) 607-318-00-4	0.2	Repr. 1B, H360D Aquatic Acute 1, H400 Aquatic Chronic 2, H411
1,2-dinitrobenzene (Component)	(CAS No) 528-29-0 (EC-No.) 208-431-8 (EC index no) 609-004-00-2	0.2	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,3-dinitrobenzene (Component)	(CAS No) 99-65-0 (EC-No.) 202-776-8 (EC index no) 609-004-00-2	0.2	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,4-dinitrobenzene (Component)	(CAS No) 100-25-4 (EC-No.) 202-833-7 (EC index no) 609-004-00-2	0.2	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
4,6-Dinitro-2-methylphenol (Component)	(CAS No) 534-52-1 (EC-No.) 208-601-1 (EC index no) 609-020-00-X	0.2	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
2,4-dinitrophenol (Component)	(CAS No) 51-28-5 (EC-No.) 200-087-7 (EC index no) 609-041-00-4	0.2	Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Acute 1, H400
2,4-dinitrotoluene (Component) substance listed as REACH Candidate substance listed in REACH Annex XIV (2,4-Dinitrotoluene (2,4-DNT))	(CAS No) 121-14-2 (EC-No.) 204-450-0 (EC index no) 609-007-00-9	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Muta. 2, H341 Carc. 1B, H350 Repr. 2, H361f STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,6-dinitrotoluene (Component)	(CAS No) 606-20-2 (EC-No.) 210-106-0 (EC index no) 609-049-00-8	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Muta. 2, H341 Carc. 1B, H350 Repr. 2, H361f STOT RE 2, H373 Aquatic Chronic 3, H412
N-nitrosodiphenylamine (Component)	(CAS No) 86-30-6 (EC-No.) 201-663-0	0.2	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Chronic 2, H411
fluoranthene (Component)	(CAS No) 206-44-0 (EC-No.) 205-912-4	0.2	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
fluorene (Component)	(CAS No) 86-73-7 (EC-No.) 201-695-5	0.2	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
hexachlorobenzene (Component)	(CAS No) 118-74-1 (EC-No.) 204-273-9 (EC index no) 602-065-00-6	0.2	Carc. 1B, H350 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
hexachlorobuta-1,3-diene (Component)	(CAS No) 87-68-3 (EC-No.) 201-765-5	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Hexachlorocyclopentadiene (Component)	(CAS No) 77-47-4 (EC-No.) 201-029-3 (EC index no) 602-078-00-7	0.2	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
hexachloroethane (Component)	(CAS No) 67-72-1 (EC-No.) 200-666-4	0.2	Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
indeno(1,2,3-cd)pyrene (Component)	(CAS No) 193-39-5 (EC-No.) 205-893-2	0.2	Carc. 1B, H350
aniline	(CAS No) 62-53-3 (EC-No.) 200-539-3 (EC index no) 612-008-00-7	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400
3-Methylphenol (Component)	(CAS No) 108-39-4 (EC-No.) 203-577-9 (EC index no) 604-004-00-9	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Aquatic Chronic 2, H411
4-Methylphenol (Component)	(CAS No) 106-44-5 (EC-No.) 203-398-6 (EC index no) 604-004-00-9	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Name	Product identifier	Specific concentration limits
methanol	(CAS No) 67-56-1 (EC-No.) 200-659-6 (EC index no) 603-001-00-X	( 3 =<C < 10) STOT SE 2, H371 (C >= 10) STOT SE 1, H370
benzo[a]pyrene (Component)	(CAS No) 50-32-8 (EC-No.) 200-028-5 (EC index no) 601-032-00-3	(C >= 0.01) Carc. 1B, H350
isophorone (Component)	(CAS No) 78-59-1 (EC-No.) 201-126-0 (EC index no) 606-012-00-8	(C >= 10) STOT SE 3, H335
N-Nitrosodimethylamine (Component)	(CAS No) 62-75-9 (EC-No.) 200-549-8 (EC index no) 612-077-00-3	(C >= 0.001) Carc. 1B, H350
N-Nirosodi-n-propylamine (Component)	(CAS No) 621-64-7 (EC-No.) 210-698-0 (EC index no) 612-098-00-8	(C >= 0.001) Carc. 1B, H350
phenol (Component)	(CAS No) 108-95-2 (EC-No.) 203-632-7 (EC index no) 604-001-00-2	( 1 =<C < 3) Eye Irrit. 2, H319 ( 1 =<C < 3) Skin Irrit. 2, H315 (C >= 3) Skin Corr. 1B, H314
2,3,4,6-tetrachlorophenol (Component)	(CAS No) 58-90-2 (EC-No.) 200-402-8 (EC index no) 604-013-00-8	(C >= 5) Skin Irrit. 2, H315 (C >= 5) Eye Irrit. 2, H319
2,4,5-trichlorophenol (Component)	(CAS No) 95-95-4 (EC-No.) 202-467-8 (EC index no) 604-017-00-X	(C >= 5) Skin Irrit. 2, H315 (C >= 5) Eye Irrit. 2, H319
dibenz(a,h)anthracene (Component)	(CAS No) 53-70-3 (EC-No.) 200-181-8 (EC index no) 601-041-00-2	(C >= 0.01) Carc. 1B, H350
aniline	(CAS No) 62-53-3 (EC-No.) 200-539-3 (EC index no) 612-008-00-7	( 0.2 =<C < 1) STOT RE 2, H373 (C >= 1) STOT RE 1, H372

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse. Gently wash with plenty of soap and water.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Highly flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Risk of explosion if heated under confinement.

#### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire reaches explosives. Evacuate area.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up in absorbent material. Collect spillage.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Keep away from sources of ignition - No smoking.

Hygiene measures : Do not eat, drink or smoke when using this product. Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.

Storage conditions : Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.

Incompatible materials : Direct sunlight. Heat sources.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

<b>benzo[a]pyrene (50-32-8)</b>		
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	550 (Benzo(a)pyreen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
<b>benzyl butyl phthalate (85-68-7)</b>		
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> Benzyl butyl phthalate; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
<b>bis(2-chloroethyl) ether (111-44-4)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	29 mg/m <sup>3</sup> (Oxyde de bis(2-chloroéthyle); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	5 ppm (Oxyde de bis(2-chloroéthyle); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	59 mg/m <sup>3</sup> (Oxyde de bis(2-chloroéthyle); Belgium; Short time value)
Belgium	Short time value (ppm)	10 ppm (Oxyde de bis(2-chloroéthyle); Belgium; Short time value)
France	VME (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup> (Oxyde de 2,2'-dichlorodiéthyle; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	5 ppm (Oxyde de 2,2'-dichlorodiéthyle; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	5 ppm (Dichloroethyl ether; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)



# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>bis(2-chloroethyl) ether (111-44-4)</b>		
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	10 ppm (Dichloroethyl ether; USA; Short time value; TLV - Adopted Value)
<b>Bis(2-ethylhexyl) phthalate (117-81-7)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Phtalate de di-sec-octyle; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Phtalate de di-sec-octyle; Belgium; Short time value)
France	VME (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Phtalate de di(2-éthylhexyle); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Di(2-ethylhexyl)phthalate (DEHP); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> Bis(2-ethylhexyl)phthalate; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> Bis(2-ethylhexyl)phthalate; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
<b>4-chloroaniline (106-47-8)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	7.7 mg/m <sup>3</sup> (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
<b>1,2-dichlorobenzene (95-50-1)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	122 mg/m <sup>3</sup> (1,2-Dichlorobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	20 ppm (1,2-Dichlorobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV STEL (mg/m <sup>3</sup> )	306 mg/m <sup>3</sup> (1,2-Dichlorobenzene; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	50 ppm (1,2-Dichlorobenzene; EU; Short time value; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	122 mg/m <sup>3</sup> (1,2-Dichlorobenzène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	20 ppm (1,2-Dichlorobenzène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	306 mg/m <sup>3</sup> (1,2-Dichlorobenzène; Belgium; Short time value)
Belgium	Short time value (ppm)	50 ppm (1,2-Dichlorobenzène; Belgium; Short time value)
France	VLE (mg/m <sup>3</sup> )	306 mg/m <sup>3</sup> (1,2-Dichlorobenzène; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VLE (ppm)	50 ppm (1,2-Dichlorobenzène; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VME (mg/m <sup>3</sup> )	122 mg/m <sup>3</sup> (1,2-Dichlorobenzène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	20 ppm (1,2-Dichlorobenzène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	25 ppm (o-Dichlorobenzene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	50 ppm (o-Dichlorobenzene; USA; Short time value; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	122 mg/m <sup>3</sup> (1,2-Dichloorbenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	20 ppm (1,2-Dichloorbenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup> (1,2-Dichloorbenzeen; Netherlands; Short time value; Public occupational exposure limit value)

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>1,2-dichlorobenzene (95-50-1)</b>		
Netherlands	Grenswaarde TGG 15MIN (ppm)	49 ppm (1,2-Dichloorbenzeen; Netherlands; Short time value; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	153 mg/m <sup>3</sup> 1,2-dichlorobenzene (ortho-dichlorobenzene); United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	25 ppm 1,2-dichlorobenzene (ortho-dichlorobenzene); United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	306 mg/m <sup>3</sup> 1,2-dichlorobenzene (ortho-dichlorobenzene); United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	50 ppm 1,2-dichlorobenzene (ortho-dichlorobenzene); United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
<b>1,4-dichlorobenzene (106-46-7)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	122 mg/m <sup>3</sup> (1,4-Dichlorobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	20 ppm (1,4-Dichlorobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV STEL (mg/m <sup>3</sup> )	306 mg/m <sup>3</sup> (1,4-Dichlorobenzene; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	50 ppm (1,4-Dichlorobenzene; EU; Short time value; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	61 mg/m <sup>3</sup> (1,4-Dichlorobenzène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	10 ppm (1,4-Dichlorobenzène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	306 mg/m <sup>3</sup> (1,4-Dichlorobenzène; Belgium; Short time value)
Belgium	Short time value (ppm)	50 ppm (1,4-Dichlorobenzène; Belgium; Short time value)
France	VLE (mg/m <sup>3</sup> )	306 mg/m <sup>3</sup> (1,4-Dichlorobenzène; France; Short time value; VRI: Valeur réglementaire indicative)
France	VLE (ppm)	50 ppm (1,4-Dichlorobenzène; France; Short time value; VRI: Valeur réglementaire indicative)
France	VME (mg/m <sup>3</sup> )	4.5 mg/m <sup>3</sup> (1,4-Dichlorobenzène; France; Time-weighted average exposure limit 8 h; VRI: Valeur réglementaire indicative)
France	VME (ppm)	0.75 ppm (1,4-Dichlorobenzène; France; Time-weighted average exposure limit 8 h; VRI: Valeur réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	10 ppm (p-Dichlorobenzene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	450 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	75 ppm
USA OSHA	OSHA PEL (STEL) (mg/m <sup>3</sup> )	675 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (STEL) (ppm)	110 ppm
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup> (1,4-Dichloorbenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	25 ppm (1,4-Dichloorbenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup> (1,4-Dichloorbenzeen; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (ppm)	49 ppm (1,4-Dichloorbenzeen; Netherlands; Short time value; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	153 mg/m <sup>3</sup> 1,4-Dichlorobenzene (para-dichlorobenzene); United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>1,4-dichlorobenzene (106-46-7)</b>		
United Kingdom	WEL TWA (ppm)	25 ppm 1,4-Dichlorobenzene (para-dichlorobenzene); United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	306 mg/m <sup>3</sup> 1,4-Dichlorobenzene (para-dichlorobenzene); United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	50 ppm 1,4-Dichlorobenzene (para-dichlorobenzene); United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
<b>dibutyl phthalate (84-74-2)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Phtalate de dibutyle; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Phtalate de dibutyle; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Dibutyl phthalate; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> Dibutyl phthalate; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> Dibutyl phthalate; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
<b>1,2-dinitrobenzene (528-29-0)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Dinitrobenzène (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.15 ppm (Dinitrobenzène (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Dinitrobenzène (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	0.15 ppm (Dinitrobenzène (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.15 ppm (Dinitrobenzene, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> Dinitrobenzene, all isomers; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	0.15 ppm Dinitrobenzene, all isomers; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup> Dinitrobenzene, all isomers; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	0.5 ppm Dinitrobenzene, all isomers; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
<b>1,3-dinitrobenzene (99-65-0)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Dinitrobenzène (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.15 ppm (Dinitrobenzène (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Dinitrobenzène (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	0.15 ppm (Dinitrobenzène (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.15 ppm (Dinitrobenzene, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> Dinitrobenzene, all isomers; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>1,3-dinitrobenzene (99-65-0)</b>		
United Kingdom	WEL TWA (ppm)	0.15 ppm Dinitrobenzene, all isomers; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup> Dinitrobenzene, all isomers; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	0.5 ppm Dinitrobenzene, all isomers; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
<b>1,4-dinitrobenzene (100-25-4)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Dinitrobenzène (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.15 ppm (Dinitrobenzène (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Dinitrobenzène (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	0.15 ppm (Dinitrobenzène (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.15 ppm (Dinitrobenzene, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> Dinitrobenzene, all isomers; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	0.15 ppm Dinitrobenzene, all isomers; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup> Dinitrobenzene, all isomers; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	0.5 ppm Dinitrobenzene, all isomers; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
<b>4,6-Dinitro-2-methylphenol (534-52-1)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> (4,6-Dinitro-o-crésol; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> (4,6-Dinitro-o-crésol; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> (Dinitro-o-cresol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
<b>2,4-dinitrotoluene (121-14-2)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	0.15 mg/m <sup>3</sup> (Dinitrotoluène (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> (Dinitrotoluene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
<b>2,6-dinitrotoluene (606-20-2)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	0.15 mg/m <sup>3</sup> (Dinitrotoluène (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> (Dinitrotoluene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
<b>N-nitrosodiphenylamine (86-30-6)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (Particules non classifiées autrement (fraction alvéolaire); Belgium; Time-weighted average exposure limit 8 h; Particules non classifiées autrement (fraction inhalable); 10 mg/m <sup>3</sup> ; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Poussières réputées sans effet spécifique; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante; Poussières réputées sans effet spécifique, fraction; 5 mg/m <sup>3</sup> ; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>N-nitrosodiphenylamine (86-30-6)</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (Particulates (insoluble or poorly soluble)(NOS); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> Inhalable dust; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); Respirable dust; 10 mg/m <sup>3</sup> ; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
<b>hexachlorobenzene (118-74-1)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	0.002 mg/m <sup>3</sup> (Hexachlorobenzène; Belgium; Time-weighted average exposure limit 8 h)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.002 mg/m <sup>3</sup> (Hexachlorobenzene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	0.03 mg/m <sup>3</sup> (Hexachloorbenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
<b>hexachlorobuta-1,3-diene (87-68-3)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	0.21 mg/m <sup>3</sup> (Hexachlorobutadiène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.02 ppm (Hexachlorobutadiène; Belgium; Time-weighted average exposure limit 8 h)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.02 ppm (Hexachlorobutadiene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
<b>Hexachlorocyclopentadiene (77-47-4)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	0.11 mg/m <sup>3</sup> (Hexachlorocyclopentadiène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.01 ppm (Hexachlorocyclopentadiène; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (Hexachlorocyclopentadiène; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	0.01 ppm (Hexachlorocyclopentadiène; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.01 ppm (Hexachlorocyclopentadiene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
<b>hexachloroethane (67-72-1)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	9.8 mg/m <sup>3</sup> (Hexachloroéthane; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	1 ppm (Hexachloroéthane; Belgium; Time-weighted average exposure limit 8 h)
France	VLE (ppm)	10 ppm (Hexachloroéthane; France; Short time value; VL: Valeur non réglementaire indicative)
France	VME (ppm)	1 ppm (Hexachloroéthane; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1 ppm (Hexachloroethane; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
<b>isophorone (78-59-1)</b>		
Belgium	Short time value (mg/m <sup>3</sup> )	mg/m <sup>3</sup>
Belgium	Short time value (ppm)	5 ppm
France	VLE (mg/m <sup>3</sup> )	Isophorone,25 mg/m <sup>3</sup> ; France; Short time value; VL: Valeur non réglementaire indicative
France	VLE (ppm)	Isophorone,5 ppm; France; Short time value; VL: Valeur non réglementaire indicative
Italy - Portugal - USA ACGIH	ACGIH Ceiling (ppm)	5 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	29 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	5 ppm
<b>1-methylnaphthalene (90-12-0)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (1-Méthylnaphtalène; Belgium; Time-weighted average exposure limit 8 h)

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>1-methylnaphthalene (90-12-0)</b>		
Belgium	Limit value (ppm)	0.5 ppm (1-Méthylnaphtalène; Belgium; Time-weighted average exposure limit 8 h)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.5 ppm (1-methylnaphthalene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
<b>2-methylnaphthalene (91-57-6)</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.5 ppm (2-methylnaphthalene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
<b>2-Methylphenol (95-48-7)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	5 ppm (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	5 ppm (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	5 ppm (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (Cresol, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Kresol (alle isomeren); Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
<b>3-Methylphenol (108-39-4)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	5 ppm (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	5 ppm (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	5 ppm (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (Cresol, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Kresol (alle isomeren); Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
<b>4-Methylphenol (106-44-5)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	5 ppm (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	5 ppm (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>4-Methylphenol (106-44-5)</b>		
France	VME (ppm)	5 ppm (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (Cresol, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Kresol (alle isomeren); Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
<b>naphthalene (91-20-3)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (Naphtalene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	10 ppm (Naphtalene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	53 mg/m <sup>3</sup> (Naphtalène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	10 ppm (Naphtalène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup> (Naphtalène; Belgium; Short time value)
Belgium	Short time value (ppm)	15 ppm (Naphtalène; Belgium; Short time value)
France	VME (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (Naphtalène; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	10 ppm (Naphtalène; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	10 ppm (Naphthalene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (Naftaleen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	9.4 ppm (Naftaleen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup> (Naftaleen; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (ppm)	15 ppm (Naftaleen; Netherlands; Short time value; Public occupational exposure limit value)
<b>2-Nitroaniline (88-74-4)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	7.7 mg/m <sup>3</sup> (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
<b>3-Nitroaniline (99-09-2)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	7.7 mg/m <sup>3</sup> (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
<b>4-Nitroaniline (100-01-6)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (4-Nitroaniline; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (4-Nitroaniline; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (p-Nitroaniline; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
<b>nitrobenzene (98-95-3)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Nitrobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	0.2 ppm (Nitrobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>nitrobenzene (98-95-3)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Nitrobenzène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.2 ppm (Nitrobenzène; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Nitrobenzène; France; Time-weighted average exposure limit 8 h; VRI: Valeur réglementaire indicative)
France	VME (ppm)	0.2 ppm (Nitrobenzène; France; Time-weighted average exposure limit 8 h; VRI: Valeur réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1 ppm (Nitrobenzene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Nitrobenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	0.2 ppm (Nitrobenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> Nitrobenzene; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	0.2 ppm Nitrobenzene; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
<b>N-Nitrosodimethylamine (62-75-9)</b>		
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	0.0002 mg/m <sup>3</sup> (N-Nitrosodimethylamine; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	0.000065 ppm (N-Nitrosodimethylamine; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
<b>2,3,4,5,6-pentachlorophenol (87-86-5)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup> (Pentachlorophénol; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup> (Pentachlorophénol; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup> (Pentachlorophenol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
Italy - Portugal - USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Pentachlorophenol; USA; Short time value; TLV - Adopted Value; Inhalable fraction and vapor)
<b>phenol (108-95-2)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup> (Phénol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	2 ppm (Phénol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV STEL (mg/m <sup>3</sup> )	16 mg/m <sup>3</sup> (Phénol; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	4 ppm (Phénol; EU; Short time value; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup> (Phénol; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (Phénol; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	16 mg/m <sup>3</sup> (Phénol; Belgium; Short time value)
Belgium	Short time value (ppm)	4 ppm (Phénol; Belgium; Short time value)
France	VLE (mg/m <sup>3</sup> )	15.6 mg/m <sup>3</sup> (Phénol; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VLE (ppm)	4 ppm (Phénol; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VME (mg/m <sup>3</sup> )	7.8 mg/m <sup>3</sup> (Phénol; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)



# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>phenol (108-95-2)</b>		
France	VME (ppm)	2 ppm (Phénol; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	5 ppm (Phenol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup> (Fenol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	2 ppm (Fenol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	7.8 mg/m <sup>3</sup> Phenol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	2 ppm Phenol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	16 mg/m <sup>3</sup> Phenol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	4 ppm Phenol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
<b>pyridine (110-86-1)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (Pyridine; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	5 ppm (Pyridine; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	3.3 mg/m <sup>3</sup> (Pyridine; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	1 ppm (Pyridine; Belgium; Time-weighted average exposure limit 8 h)
France	VLE (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup> (Pyridine; France; Short time value; VL: Valeur non réglementaire indicative)
France	VLE (ppm)	10 ppm (Pyridine; France; Short time value; VL: Valeur non réglementaire indicative)
France	VME (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (Pyridine; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	5 ppm (Pyridine; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1 ppm (Pyridine; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	0.9 mg/m <sup>3</sup> (Pyridine; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	0.27 ppm (Pyridine; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	16 mg/m <sup>3</sup> Pyridine; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	5 ppm Pyridine; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	33 mg/m <sup>3</sup> Pyridine; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	10 ppm Pyridine; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
<b>1,2,4-trichlorobenzene (120-82-1)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	15.1 mg/m <sup>3</sup> (1,2,4-Trichlorobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	2 ppm (1,2,4-Trichlorobenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>1,2,4-trichlorobenzene (120-82-1)</b>		
EU	IOELV STEL (mg/m <sup>3</sup> )	37.8 mg/m <sup>3</sup> (1,2,4-Trichlorobenzene; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	5 ppm (1,2,4-Trichlorobenzene; EU; Short time value; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	15.1 mg/m <sup>3</sup> (1,2,4-Trichlorobenzène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (1,2,4-Trichlorobenzène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	37.8 mg/m <sup>3</sup> (1,2,4-Trichlorobenzène; Belgium; Short time value)
Belgium	Short time value (ppm)	5 ppm (1,2,4-Trichlorobenzène; Belgium; Short time value)
France	VLE (mg/m <sup>3</sup> )	37.8 mg/m <sup>3</sup> (1,2,4-Trichlorobenzène; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VLE (ppm)	5 ppm (1,2,4-Trichlorobenzène; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VME (mg/m <sup>3</sup> )	15.1 mg/m <sup>3</sup> (1,2,4-Trichlorobenzène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	2 ppm (1,2,4-Trichlorobenzène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH Ceiling (ppm)	5 ppm (1,2,4-Trichlorobenzene; USA; Momentary value; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	7.55 mg/m <sup>3</sup> (1,2,4-Trichlorobenzene; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	1 ppm (1,2,4-Trichlorobenzene; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	37.8 mg/m <sup>3</sup> (1,2,4-Trichlorobenzene; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (ppm)	5 ppm (1,2,4-Trichlorobenzene; Netherlands; Short time value; Public occupational exposure limit value)
United Kingdom	WEL TWA (ppm)	1 ppm 1,2,4-Trichlorobenzene; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	5 ppm 1,2,4-Trichlorobenzene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
<b>Methylene Chloride (75-09-2)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	177 mg/m <sup>3</sup> (Chlorure de méthylène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	50 ppm (Chlorure de méthylène; Belgium; Time-weighted average exposure limit 8 h)
France	VLE (mg/m <sup>3</sup> )	356 mg/m <sup>3</sup> (Dichlorométhane; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VLE (ppm)	100 ppm (Dichlorométhane; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VME (mg/m <sup>3</sup> )	178 mg/m <sup>3</sup> (Dichlorométhane; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	50 ppm (Dichlorométhane; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50 ppm (Dichloromethane (Methylene chloride); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup> Dichloromethane; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	100 ppm Dichloromethane; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1060 mg/m <sup>3</sup> Dichloromethane; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>Methylene Chloride (75-09-2)</b>		
United Kingdom	WEL STEL (ppm)	300 ppm Dichloromethane; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
<b>aniline (62-53-3)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	7.7 mg/m <sup>3</sup> (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (Aniline et homologues; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Aniline; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	2 ppm (Aniline; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	2 ppm (Aniline; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> Aniline; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	1 ppm Aniline; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
<b>methanol (67-56-1)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup> (Methanol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	200 ppm (Methanol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	266 mg/m <sup>3</sup> (Alcool méthylique; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	200 ppm (Alcool méthylique; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	333 mg/m <sup>3</sup> (Alcool méthylique; Belgium; Short time value)
Belgium	Short time value (ppm)	250 ppm (Alcool méthylique; Belgium; Short time value)
France	VLE (mg/m <sup>3</sup> )	1300 mg/m <sup>3</sup> (Methanol; France; Short time value; VL: Valeur non réglementaire indicative)
France	VLE (ppm)	1000 ppm (Methanol; France; Short time value; VL: Valeur non réglementaire indicative)
France	VME (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup> (Methanol; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	200 ppm (Methanol; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200 ppm (Methanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	250 ppm (Methanol; USA; Short time value; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	133 mg/m <sup>3</sup> (Methanol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	100 ppm (Methanol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	266 mg/m <sup>3</sup> Methanol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	200 ppm Methanol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	333 mg/m <sup>3</sup> Methanol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	250 ppm Methanol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)

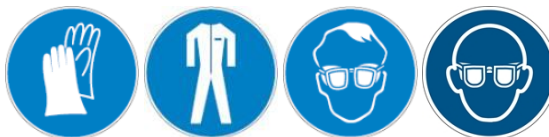
# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 8.2. Exposure controls

- Appropriate engineering controls : Either local exhaust or general room ventilation is usually required.
- Personal protective equipment : Avoid all unnecessary exposure. Wash hands, forearms and face thoroughly after handling. Gloves. Protective clothing. Protective goggles. Safety glasses.



- Hand protection : Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration.
- Eye protection : Chemical goggles or safety glasses. Safety glasses.
- Skin and body protection : Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.
- Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
- Other information : Do not eat, drink or smoke during use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Color : Colorless.
- Odor : characteristic.
- pH : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : Highly flammable liquid and vapor
- Relative density : No data available
- Solubility : No data available
- Explosive properties : Risk of explosion if heated under confinement.
- Oxidizing properties : No data available
- Explosion limits : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture. Risk of explosion if heated under confinement. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Heat. Sparks. Overheating.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

May release flammable gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

- Acute toxicity : Oral: Harmful if swallowed. Dermal: Toxic in contact with skin.

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>Custom 8270 Calibration Standard</b>	
ATE CLP (oral)	380.925 mg/kg body weight
ATE CLP (dermal)	385.579 mg/kg body weight
<b>acenaphthene (83-32-9)</b>	
LD50 oral rat	> 5000 mg/kg (Rat)
<b>acenaphthylene (208-96-8)</b>	
ATE CLP (dermal)	5 mg/kg body weight
<b>anthracene (120-12-7)</b>	
LD50 oral rat	> 16000 mg/kg (Rat)
<b>azobenzene (103-33-3)</b>	
LD50 oral rat	1000 mg/kg (Rat; Literature study)
ATE CLP (oral)	1000 mg/kg body weight
ATE CLP (gases)	4500 ppmV/4h
ATE CLP (vapors)	11 mg/l/4h
ATE CLP (dust, mist)	1.5 mg/l/4h
<b>benzyl butyl phthalate (85-68-7)</b>	
LD50 oral rat	2330 mg/kg (Rat)
LD50 dermal rat	6700 mg/kg (Rat)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 6.7 mg/l/4h (Rat)
ATE CLP (oral)	2330 mg/kg body weight
ATE CLP (dermal)	6700 mg/kg body weight
<b>bis(2-chloroethoxy) methane (111-91-1)</b>	
LD50 oral rat	65 mg/kg (Rat)
LD50 dermal rat	1071 mg/kg (Rat)
ATE CLP (oral)	65 mg/kg body weight
ATE CLP (dermal)	1071 mg/kg body weight
<b>bis(2-chloroethyl) ether (111-44-4)</b>	
LC50 inhalation rat (mg/l)	0.33 mg/l/4h (Rat)
ATE CLP (oral)	5 mg/kg body weight
ATE CLP (dermal)	5 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.33 mg/l/4h
ATE CLP (dust, mist)	0.33 mg/l/4h
<b>Bis(2-chloroisopropyl) ether (108-60-1)</b>	
LD50 oral rat	240 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	3300 mg/kg (Rabbit)
ATE CLP (oral)	240 mg/kg body weight
ATE CLP (dermal)	3300 mg/kg body weight
<b>Bis(2-ethylhexyl) phthalate (117-81-7)</b>	
LD50 oral rat	30000 mg/kg (Rat)
LD50 dermal rabbit	25000 mg/kg (Rabbit; Experimental value; 19800 mg/kg bodyweight; Rabbit)
LC50 inhalation rat (mg/l)	> 10.6 mg/l/4h (Rat)
ATE CLP (oral)	30000 mg/kg body weight
ATE CLP (dermal)	25000 mg/kg body weight
<b>carbazole (86-74-8)</b>	
LD50 oral rat	>= 5000 mg/kg (Rat)
<b>4-chloroaniline (106-47-8)</b>	
LD50 oral rat	310 mg/kg (Rat)
LD50 dermal rabbit	360 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	2.34 mg/l/4h (Rat)
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	360 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	2.34 mg/l/4h
ATE CLP (dust, mist)	2.34 mg/l/4h

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>4-chloro-3-methylphenol (59-50-7)</b>	
LD50 oral rat	1194 mg/kg (Rat)
LC50 inhalation rat (mg/l)	> 0.7 mg/l/4h (Rat)
ATE CLP (oral)	1194 mg/kg body weight
ATE CLP (dermal)	1100 mg/kg body weight
<b>2-chlorophenol (95-57-8)</b>	
LD50 oral rat	670 mg/kg body weight (Rat; Literature study)
ATE CLP (oral)	670 mg/kg body weight
ATE CLP (dermal)	1100 mg/kg body weight
ATE CLP (gases)	4500 ppmV/4h
ATE CLP (vapors)	11 mg/l/4h
ATE CLP (dust, mist)	1.5 mg/l/4h
<b>1,2-dichlorobenzene (95-50-1)</b>	
LD50 oral rat	500 mg/kg (Rat)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	9.5 mg/l/4h (Rat)
ATE CLP (oral)	500 mg/kg body weight
ATE CLP (vapors)	9.5 mg/l/4h
ATE CLP (dust, mist)	9.5 mg/l/4h
<b>1,3-dichlorobenzene (541-73-1)</b>	
LD50 oral rat	580 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LC50 inhalation rat (mg/l)	> 17.6 mg/l/4h (Rat; Literature study)
ATE CLP (oral)	580 mg/kg body weight
<b>1,4-dichlorobenzene (106-46-7)</b>	
LD50 dermal rat	> 6000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 5 mg/l/4h (Rat)
<b>2,4-dichlorophenol (120-83-2)</b>	
LD50 dermal rat	780 mg/kg body weight (Rat; Weight of evidence; OECD 402: Acute Dermal Toxicity)
ATE CLP (oral)	500 mg/kg body weight
ATE CLP (dermal)	780 mg/kg body weight
<b>2,4-Dimethylphenol (105-67-9)</b>	
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight
<b>dibutyl phthalate (84-74-2)</b>	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	> 20900 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 15 mg/l/4h (Rat)
<b>1,2-dinitrobenzene (528-29-0)</b>	
LD50 oral rat	< 50 mg/kg (Rat)
ATE CLP (oral)	5 mg/kg body weight
ATE CLP (dermal)	5 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.5 mg/l/4h
ATE CLP (dust, mist)	0.05 mg/l/4h
<b>1,3-dinitrobenzene (99-65-0)</b>	
LD50 oral rat	60 mg/kg (Rat)
LD50 dermal rat	1200 mg/kg (Rat)
ATE CLP (oral)	5 mg/kg body weight
ATE CLP (dermal)	5 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.5 mg/l/4h
ATE CLP (dust, mist)	0.05 mg/l/4h
<b>1,4-dinitrobenzene (100-25-4)</b>	
ATE CLP (oral)	5 mg/kg body weight
ATE CLP (dermal)	5 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.5 mg/l/4h

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>1,4-dinitrobenzene (100-25-4)</b>	
ATE CLP (dust, mist)	0.05 mg/l/4h
<b>4,6-Dinitro-2-methylphenol (534-52-1)</b>	
LD50 oral rat	7 - 40 mg/kg (Rat)
LD50 dermal rat	200 mg/kg (Rat)
ATE CLP (oral)	7 mg/kg body weight
ATE CLP (dermal)	5 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.5 mg/l/4h
ATE CLP (dust, mist)	0.05 mg/l/4h
<b>2,4-dinitrophenol (51-28-5)</b>	
LD50 oral rat	30 mg/kg (Rat)
ATE CLP (oral)	30 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	3 mg/l/4h
ATE CLP (dust, mist)	0.5 mg/l/4h
<b>2,4-dinitrotoluene (121-14-2)</b>	
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	3 mg/l/4h
ATE CLP (dust, mist)	0.5 mg/l/4h
<b>2,6-dinitrotoluene (606-20-2)</b>	
LD50 oral rat	177 mg/kg (Rat)
ATE CLP (oral)	177 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	3 mg/l/4h
ATE CLP (dust, mist)	0.5 mg/l/4h
<b>N-nitrosodiphenylamine (86-30-6)</b>	
LD50 oral rat	1650 mg/kg (Rat)
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)
ATE CLP (oral)	1650 mg/kg body weight
<b>fluoranthene (206-44-0)</b>	
LD50 oral rat	2000 mg/kg (Rat)
LD50 dermal rabbit	3180 mg/kg (Rabbit)
ATE CLP (oral)	2000 mg/kg body weight
ATE CLP (dermal)	3180 mg/kg body weight
<b>hexachlorobenzene (118-74-1)</b>	
LD50 oral rat	10000 mg/kg (Rat)
ATE CLP (oral)	10000 mg/kg body weight
<b>hexachlorobuta-1,3-diene (87-68-3)</b>	
LD50 oral rat	90 mg/kg (Rat)
LD50 dermal rabbit	1211 mg/kg (Rabbit)
ATE CLP (oral)	90 mg/kg body weight
ATE CLP (dermal)	1211 mg/kg body weight
<b>Hexachlorocyclopentadiene (77-47-4)</b>	
LD50 oral rat	315 mg/kg (Rat; Experimental value; 200 mg/kg bodyweight; Rat; Experimental value; 505 mg/kg bodyweight; Rat; Experimental value; 690 mg/kg bodyweight; Rat; Experimental value; 640 mg/kg bodyweight; Rat)
LD50 dermal rat	2000-3200,Rat; Experimental value
LD50 dermal rabbit	200 - 340 mg/kg (Rabbit; Experimental value; 430 mg/kg bodyweight; Rabbit)
LC50 inhalation rat (mg/l)	0.018 mg/l/4h (Rat; Experimental value; 0,04 mg/l/4h; Rat; Experimental value)
ATE CLP (oral)	315 mg/kg body weight
ATE CLP (dermal)	200 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.018 mg/l/4h

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>Hexachlorocyclopentadiene (77-47-4)</b>	
ATE CLP (dust, mist)	0.018 mg/l/4h
<b>hexachloroethane (67-72-1)</b>	
LD50 oral rat	4460 mg/kg (Rat)
LD50 dermal rabbit	32000 mg/kg (Rabbit)
ATE CLP (oral)	4460 mg/kg body weight
ATE CLP (dermal)	32000 mg/kg body weight
<b>isophorone (78-59-1)</b>	
LD50 oral rat	1870 mg/kg (Rat)
LD50 dermal rat	1390 mg/kg (Rat)
LD50 dermal rabbit	1350 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	7.2 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	1281 ppm/4h (Rat)
ATE CLP (oral)	1870 mg/kg body weight
ATE CLP (dermal)	1350 mg/kg body weight
ATE CLP (gases)	1281 ppmV/4h
ATE CLP (vapors)	7.2 mg/l/4h
ATE CLP (dust, mist)	7.2 mg/l/4h
<b>1-methylnaphthalene (90-12-0)</b>	
LD50 oral rat	1840 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit; Literature study)
ATE CLP (oral)	1840 mg/kg body weight
<b>2-methylnaphthalene (91-57-6)</b>	
LD50 oral rat	1630 mg/kg (Rat)
ATE CLP (oral)	1630 mg/kg body weight
<b>2-Methylphenol (95-48-7)</b>	
LD50 oral rat	121 mg/kg (Rat)
LD50 dermal rat	620 mg/kg (Rat)
LD50 dermal rabbit	890 mg/kg (Rabbit)
ATE CLP (oral)	121 mg/kg body weight
ATE CLP (dermal)	620 mg/kg body weight
<b>3-Methylphenol (108-39-4)</b>	
LD50 oral rat	242 mg/kg (Rat)
LD50 dermal rat	1100 mg/kg (Rat)
LD50 dermal rabbit	2050 mg/kg (Rabbit)
ATE CLP (oral)	242 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight
<b>4-Methylphenol (106-44-5)</b>	
LD50 oral rat	207 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	301 mg/kg (Rabbit)
ATE CLP (oral)	207 mg/kg body weight
ATE CLP (dermal)	301 mg/kg body weight
<b>naphthalene (91-20-3)</b>	
LD50 oral rat	> 1100 mg/kg (Rat)
LD50 dermal rat	> 2500 mg/kg (Rat)
LD50 dermal rabbit	> 20000 mg/kg (Rabbit)
ATE CLP (oral)	500 mg/kg body weight
<b>2-Nitroaniline (88-74-4)</b>	
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	3 mg/l/4h
ATE CLP (dust, mist)	0.5 mg/l/4h
<b>3-Nitroaniline (99-09-2)</b>	
LD50 oral rat	535 mg/kg (Rat)
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h



# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>3-Nitroaniline (99-09-2)</b>	
ATE CLP (vapors)	3 mg/l/4h
ATE CLP (dust, mist)	0.5 mg/l/4h
<b>4-Nitroaniline (100-01-6)</b>	
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	3 mg/l/4h
ATE CLP (dust, mist)	0.5 mg/l/4h
<b>nitrobenzene (98-95-3)</b>	
LD50 oral rat	640 mg/kg (Rat; Experimental value; 588 mg/kg bodyweight; Rat)
LD50 dermal rabbit	760 mg/kg body weight (Rabbit; Experimental value)
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	760 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	3 mg/l/4h
ATE CLP (dust, mist)	0.5 mg/l/4h
<b>N-Nitrosodimethylamine (62-75-9)</b>	
LD50 oral rat	37 mg/kg (Rat)
LC50 inhalation rat (mg/l)	0.24 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	78 ppm/4h (Rat)
ATE CLP (oral)	37 mg/kg body weight
ATE CLP (gases)	78 ppmV/4h
ATE CLP (vapors)	0.24 mg/l/4h
ATE CLP (dust, mist)	0.24 mg/l/4h
<b>N-Nirosodi-n-propylamine (621-64-7)</b>	
LD50 oral rat	480 mg/kg (Rat)
ATE CLP (oral)	480 mg/kg body weight
<b>2,3,4,5,6-pentachlorophenol (87-86-5)</b>	
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.5 mg/l/4h
ATE CLP (dust, mist)	0.05 mg/l/4h
<b>phenanthrene (85-01-8)</b>	
LD50 oral rat	1800 mg/kg (Rat)
ATE CLP (oral)	1800 mg/kg body weight
<b>phenol (108-95-2)</b>	
LD50 oral rat	650 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rat	660 mg/kg (Rat; Experimental value; Equivalent or similar to OECD 402)
LD50 dermal rabbit	850 - 1400 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	0.32 mg/l/4h (Rat; Literature study)
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	660 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	0.32 mg/l/4h
ATE CLP (dust, mist)	0.32 mg/l/4h
<b>pyrene (129-00-0)</b>	
LD50 oral rat	2700 mg/kg (Rat)
ATE CLP (oral)	2700 mg/kg body weight
<b>pyridine (110-86-1)</b>	
LD50 oral rat	> 891 mg/kg (Rat)
LD50 dermal rabbit	1120 mg/kg (Rabbit)
ATE CLP (oral)	500 mg/kg body weight
ATE CLP (dermal)	1120 mg/kg body weight
ATE CLP (gases)	4500 ppmV/4h
ATE CLP (vapors)	11 mg/l/4h
ATE CLP (dust, mist)	1.5 mg/l/4h

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>2,3,4,6-tetrachlorophenol (58-90-2)</b>	
LD50 oral rat	140 mg/kg (Rat)
LD50 dermal rat	485 mg/kg (Rat)
ATE CLP (oral)	140 mg/kg body weight
ATE CLP (dermal)	485 mg/kg body weight
<b>2,3,5,6-tetrachlorophenol (935-95-5)</b>	
LD50 oral rat	109 mg/kg (Rat)
ATE CLP (oral)	109 mg/kg body weight
<b>1,2,4-trichlorobenzene (120-82-1)</b>	
LD50 oral rat	756 mg/kg (Rat)
LD50 dermal rat	6139 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 4.1 mg/l/4h (Rat)
ATE CLP (oral)	756 mg/kg body weight
ATE CLP (dermal)	6139 mg/kg body weight
<b>2,4,5-trichlorophenol (95-95-4)</b>	
LD50 oral rat	820 mg/kg (Rat)
ATE CLP (oral)	820 mg/kg body weight
<b>2,4,6-trichlorophenol (88-06-2)</b>	
LD50 oral rat	820 mg/kg (Rat; Literature study)
ATE CLP (oral)	820 mg/kg body weight
<b>Methylene Chloride (75-09-2)</b>	
LD50 oral rat	> 2000 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Literature study)
<b>di-n-octyl phthalate (117-84-0)</b>	
LD50 oral rat	47000 mg/kg (Rat)
ATE CLP (oral)	47000 mg/kg body weight
<b>aniline (62-53-3)</b>	
LD50 oral rat	250 mg/kg (Rat)
LD50 dermal rabbit	840 mg/kg (Rabbit; Experimental value; 21 CFR 191.10; 836 mg/kg bodyweight; Rabbit)
LC50 inhalation rat (mg/l)	3.27 mg/l/4h (Rat; Experimental value)
ATE CLP (oral)	250 mg/kg body weight
ATE CLP (dermal)	840 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	3.27 mg/l/4h
ATE CLP (dust, mist)	3.27 mg/l/4h
<b>methanol (67-56-1)</b>	
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence)
LD50 dermal rabbit	15800 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat; Literature study)
ATE CLP (oral)	100 mg/kg body weight
ATE CLP (dermal)	300 mg/kg body weight
ATE CLP (gases)	700 ppmV/4h
ATE CLP (vapors)	3 mg/l/4h
ATE CLP (dust, mist)	0.5 mg/l/4h

Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitization	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: May cause genetic defects.
Carcinogenicity	: May cause cancer. May cause cancer
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Specific target organ toxicity – single exposure	: May cause damage to organs.
Specific target organ toxicity – repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Harmful if swallowed. Toxic in contact with skin.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

<b>acenaphthene (83-32-9)</b>	
EC50 Daphnia 1	3.45 mg/l (EC50; 48 h)
<b>anthracene (120-12-7)</b>	
LC50 fish 2	0.00127 mg/l (LC50; 96 h)
EC50 Daphnia 2	0.0012 mg/l (EC50; 24 h)
<b>azobenzene (103-33-3)</b>	
LC50 fish 1	< 1 mg/l (LC50)
Threshold limit algae 1	2.5 mg/l (EC50; 48 h)
<b>benzo[a]anthracene (56-55-3)</b>	
LC50 fish 1	0.0018 mg/l (LC50; 65 h)
EC50 Daphnia 1	0.01 mg/l (EC50; 96 h)
<b>benzo[a]pyrene (50-32-8)</b>	
LC50 fish 1	0.0056 mg/l (LC50; 38 h)
EC50 Daphnia 1	0.005 mg/l (LC50; 96 h)
Threshold limit algae 1	0.015 mg/l (EC50; 72 h)
<b>benzo(ghi)perylene (191-24-2)</b>	
EC50 Daphnia 1	0.0002 mg/l (LC50; 14 h)
<b>benzo[k]fluoranthene (207-08-9)</b>	
EC50 Daphnia 1	0.0048 mg/l (LC50; 23 h)
<b>benzyl butyl phthalate (85-68-7)</b>	
LC50 fish 2	0.82 mg/l (LC50; 96 h)
EC50 Daphnia 2	0.97 mg/l (EC50; 48 h)
<b>bis(2-chloroethoxy) methane (111-91-1)</b>	
LC50 fish 1	155 - 217 mg/l (LC50; 96 h; Pimephales promelas)
EC50 Daphnia 1	175 - 231 mg/l (EC50; 48 h)
<b>bis(2-chloroethyl) ether (111-44-4)</b>	
EC50 Daphnia 1	238 mg/l (EC50; 48 h)
LC50 fish 2	600 mg/l (LC50; 96 h; Lepomis macrochirus)
<b>Bis(2-chloroisopropyl) ether (108-60-1)</b>	
LC50 fish 1	71.2 mg/l (LC50; 48 h)
<b>bis(2-ethylhexyl)adipate (103-23-1)</b>	
LC50 fish 1	54 - 150 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 1	> 500 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
LC50 fish 2	> 0.78 mg/l (LC0; EPA 660/3 - 75/009; 96 h; Salmo gairdneri; Static system; Fresh water; Experimental value)
Threshold limit algae 1	> 500 mg/l (EC50; DIN 38412-9; 72 h; Scenedesmus subspicatus; Static system; Fresh water; Experimental value)
<b>Bis(2-ethylhexyl) phthalate (117-81-7)</b>	
Threshold limit algae 1	> 130 mg/l (EC50; 72 h; Algae)
<b>4-bromodiphenyl ether (101-55-3)</b>	
LC50 fish 1	4.9 mg/l (LC50; 96 h; Lepomis macrochirus)
EC50 Daphnia 1	0.36 mg/l (EC50; 48 h)
<b>carbazole (86-74-8)</b>	
EC50 Daphnia 1	2.3 - 4.9 mg/l (EC50; 48 h)
LC50 fish 2	0.93 mg/l (LC50; 96 h)

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>4-chloroaniline (106-47-8)</b>	
EC50 Daphnia 1	0.31 mg/l (EC50; 48 h)
LC50 fish 2	11 mg/l (LC50; 96 h; <i>Salmo gairdneri</i> )
<b>4-chloro-3-methylphenol (59-50-7)</b>	
LC50 fish 2	0.917 mg/l (LC50; 96 h)
EC50 Daphnia 2	2 mg/l (EC50; 48 h)
Threshold limit algae 1	4.2 mg/l (EC50; 72 h)
<b>2-chlorophenol (95-57-8)</b>	
LC50 fish 1	2.6 mg/l (LC50; 96 h; <i>Salmo gairdneri</i> )
EC50 Daphnia 1	7.4 mg/l (EC50; 48 h; <i>Daphnia magna</i> )
Threshold limit algae 2	70 mg/l (EC50; 72 h; Algae)
<b>4-Chlorodiphenyl ether (7005-72-3)</b>	
LC50 fish 1	0.73 mg/l 96 h
<b>chrysene (218-01-9)</b>	
EC50 Daphnia 1	0.0007 mg/l (LC50; 24 h)
Threshold limit algae 1	0.001 mg/l (EC0)
<b>dibenz(a,h)anthracene (53-70-3)</b>	
EC50 Daphnia 1	0.0004 mg/l (LC50; 3 h)
<b>dibenzofuran (132-64-9)</b>	
LC50 fish 1	1.78 - 1.85 mg/l (LC50; 96 h)
EC50 Daphnia 1	1.7 mg/l (LC50; 48 h)
<b>1,2-dichlorobenzene (95-50-1)</b>	
LC50 fish 1	1.58 mg/l (LC50; 96 h)
EC50 Daphnia 2	0.74 mg/l (EC50; 48 h)
<b>1,3-dichlorobenzene (541-73-1)</b>	
LC50 fish 1	1.61 mg/l (LC50; 96 h)
EC50 Daphnia 1	1.2 mg/l (EC50; Equivalent or similar to OECD 202; 48 h; <i>Daphnia magna</i> ; Static system; Fresh water; Experimental value)
<b>1,4-dichlorobenzene (106-46-7)</b>	
LC50 fish 2	1.12 mg/l (LC50; 96 h; <i>Salmo gairdneri</i> )
EC50 Daphnia 2	0.7 mg/l (EC50; 48 h)
<b>2,4-dichlorophenol (120-83-2)</b>	
EC50 Daphnia 2	1.3 - 5.1 mg/l (EC50; 48 h; <i>Daphnia magna</i> )
<b>2,4-Dimethylphenol (105-67-9)</b>	
LC50 fish 1	7.8 mg/l (LC50; 96 h)
EC50 Daphnia 1	2.1 mg/l (EC50; 48 h)
Threshold limit algae 2	32 mg/l (EC50; 72 h)
<b>dibutyl phthalate (84-74-2)</b>	
LC50 fish 1	0.85 ppm (LC50; 96 h)
EC50 other aquatic organisms 1	9 mg/l (48 h; <i>Scenedesmus subspicatus</i> ; Growth rate)
EC50 Daphnia 2	3.1 - 3.8 mg/l (EC50; 48 h)
<b>1,2-dinitrobenzene (528-29-0)</b>	
LC50 fish 1	2 mg/l (LC50)
<b>1,3-dinitrobenzene (99-65-0)</b>	
LC50 fish 1	1.7 mg/l (LC50; 96 h)
EC50 Daphnia 1	27.4 mg/l (EC50; 48 h)
<b>1,4-dinitrobenzene (100-25-4)</b>	
LC50 fish 1	0.6 mg/l (LC50; 96 h)
EC50 Daphnia 1	450 mg/l (EC50; 48 h)
Threshold limit algae 1	340 mg/l (EC50; 72 h)
<b>4,6-Dinitro-2-methylphenol (534-52-1)</b>	
LC50 fish 1	0.066 mg/l (LC50; 96 h)
EC50 Daphnia 1	0.145 mg/l (EC50; 48 h)
<b>2,4-dinitrophenol (51-28-5)</b>	
LC50 fish 1	0.62 mg/l (LC50; 96 h; <i>Lepomis macrochirus</i> )
EC50 Daphnia 1	4.39 mg/l (EC50; 48 h)

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>2,6-dinitrotoluene (606-20-2)</b>	
LC50 fish 1	18.5 - 50 mg/l (LC50; 96 h)
EC50 Daphnia 2	21.7 mg/l (EC50; 48 h)
<b>N-nitrosodiphenylamine (86-30-6)</b>	
EC50 Daphnia 1	7.8 mg/l (EC50; 48 h)
LC50 fish 2	5.8 mg/l (LC50; 96 h; <i>Lepomis macrochirus</i> )
<b>fluoranthene (206-44-0)</b>	
LC50 fish 1	0.0077 mg/l (LC50; 96 h)
EC50 Daphnia 1	< 0.1 mg/l (EC50; 72 h)
Threshold limit algae 1	54 mg/l (EC50; 96 h)
<b>fluorene (86-73-7)</b>	
EC50 Daphnia 1	0.212 mg/l (EC50; 48 h)
LC50 fish 2	5.15 mg/l (LC50; 48 h)
<b>hexachlorobenzene (118-74-1)</b>	
LC50 fish 2	2.3 mg/l (LC50; 96 h)
EC50 Daphnia 2	> 0.03 mg/l (EC50; 24 h)
<b>hexachlorobuta-1,3-diene (87-68-3)</b>	
LC50 fish 2	0.25 mg/l (LC50; 96 h)
EC50 other aquatic organisms 2	0.21 mg/l (96 h; <i>Lymnaea</i> sp.)
Threshold limit algae 2	> 25 mg/l (EC0)
<b>Hexachlorocyclopentadiene (77-47-4)</b>	
LC50 fish 1	0.007 mg/l (LC50; 96 h; <i>Pimephales promelas</i> ; Flow-through system; Fresh water)
EC50 other aquatic organisms 1	0.19 mg/l (96 h; <i>Selenastrum capricornutum</i> ; Growth rate)
<b>hexachloroethane (67-72-1)</b>	
EC50 Daphnia 1	1.4 mg/l (EC50)
LC50 fish 2	0.84 mg/l (LC50; 96 h)
Threshold limit algae 1	7.75 mg/l (EC50; 96 h)
<b>isophorone (78-59-1)</b>	
LC50 fish 1	145 - 255 mg/l (96 h; <i>Pimephales promelas</i> )
EC50 Daphnia 1	117 mg/l (48 h; <i>Daphnia magna</i> )
EC50 other aquatic organisms 1	126 mg/l (96 h; <i>Selenastrum capricornutum</i> ; Growth rate)
LC50 fish 2	220 mg/l (96 h; <i>Lepomis macrochirus</i> )
TLM fish 1	1 - 100, Pisces; Nocivity test
Threshold limit algae 1	475.4 mg/l (72 h; <i>Scenedesmus subspicatus</i> ; Growth rate)
<b>1-methylnaphthalene (90-12-0)</b>	
LC50 fish 1	8.4 mg/l (LC50; 48 h; <i>Salmo fario</i> )
EC50 Daphnia 1	1.848 mg/l (LC50; 48 h)
LC50 fish 2	9 mg/l (LC50; 96 h; <i>Pimephales promelas</i> )
EC50 Daphnia 2	1.2 mg/l (EC50; 48 h)
Threshold limit algae 1	1.71 - 5.12, EC50; 3 h
Threshold limit algae 2	1200 µg/l (EC50; 14 days)
<b>2-methylnaphthalene (91-57-6)</b>	
LC50 fish 1	8 mg/l (LC50; 96 h)
<b>2-Methylphenol (95-48-7)</b>	
EC50 other aquatic organisms 1	65 mg/l (96 h; <i>Selenastrum capricornutum</i> )
LC50 fish 2	7.9 - 8.4 mg/l (LC50; 96 h)
EC50 Daphnia 2	5 - 9.5 mg/l (EC50; 48 h)
<b>3-Methylphenol (108-39-4)</b>	
LC50 fish 1	8.9 mg/l (LC50; 96 h; <i>Salmo gairdneri</i> )
EC50 Daphnia 1	8.9 mg/l (EC50; 24 h)
Threshold limit algae 1	15 mg/l (EC0; 192 h)
<b>4-Methylphenol (106-44-5)</b>	
LC50 fish 2	7.5 mg/l (LC50; 96 h)
EC50 Daphnia 2	1.4 - 21.1 mg/l (EC50; 48 h)
Threshold limit algae 2	21 mg/l (EC50; 48 h)
<b>naphthalene (91-20-3)</b>	
EC50 Daphnia 1	2.16 mg/l (EC50; 48 h; <i>Daphnia magna</i> )

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>naphthalene (91-20-3)</b>	
LC50 fish 2	0.11 mg/l (LC50; 96 h; Oncorhynchus mykiss)
Threshold limit algae 1	0.4 mg/l (EC50; 72 h; Skeletonema costatum)
<b>2-Nitroaniline (88-74-4)</b>	
EC50 Daphnia 1	10 - 18 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)
LC50 fish 2	10 - 22 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio)
<b>3-Nitroaniline (99-09-2)</b>	
LC50 fish 2	134.31 mg/l (LC50; 96 h)
<b>4-Nitroaniline (100-01-6)</b>	
EC50 Daphnia 1	24 mg/l (EC50; 48 h)
LC50 fish 2	87.6 mg/l (LC50; 96 h; Brachydanio rerio)
Threshold limit algae 1	11 mg/l (EC0; 192 h)
<b>nitrobenzene (98-95-3)</b>	
LC50 fish 1	4.3 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 48 h; Oryzias latipes)
<b>2,3,4,5,6-pentachlorophenol (87-86-5)</b>	
LC50 fish 1	0.052 mg/l (LC50; 96 h)
EC50 Daphnia 1	0.01 - 0.36 mg/l (EC50; 48 h)
<b>phenanthrene (85-01-8)</b>	
EC50 Daphnia 2	0.35 mg/l (EC50; 48 h)
Threshold limit algae 1	0.9 mg/l (EC50; 4 h)
<b>phenol (108-95-2)</b>	
LC50 other aquatic organisms 1	0.04 mg/l (4 days; Rana sp.; LC50)
EC50 Daphnia 2	6.6 mg/l (EC50; 48 h; Daphnia magna; Static system)
<b>pyrene (129-00-0)</b>	
EC50 Daphnia 1	> 0.0057 mg/l (LC50; 3.4 h)
EC50 other aquatic organisms 1	1.6 mg/l (3 h; Chlorella vulgaris)
LC50 fish 2	0.0026 mg/l (LC50; 96 h)
<b>pyridine (110-86-1)</b>	
LC50 fish 1	4.6 mg/l (LC50; 96 h)
EC50 Daphnia 2	495 mg/l (EC50; 48 h)
<b>2,3,4,6-tetrachlorophenol (58-90-2)</b>	
LC50 fish 1	0.14 mg/l (LC50; 96 h; Lepomis macrochirus)
EC50 Daphnia 1	0.01 mg/l (EC50; 48 h)
Threshold limit algae 2	1.3 mg/l (EC50; 96 h)
<b>2,3,5,6-tetrachlorophenol (935-95-5)</b>	
EC50 other aquatic organisms 1	1.01 mg/l (48 h; Protozoa; Growth)
<b>1,2,4-trichlorobenzene (120-82-1)</b>	
LC50 fish 1	1.32 mg/l (LC50; 96 h)
EC50 Daphnia 1	0.86 mg/l (EC50; 48 h)
<b>2,4,5-trichlorophenol (95-95-4)</b>	
LC50 fish 1	0.45 mg/l (LC50; 96 h; Lepomis macrochirus)
EC50 Daphnia 1	0.9 - 2.7 mg/l (EC50; 48 h)
<b>2,4,6-trichlorophenol (88-06-2)</b>	
LC50 fish 1	0.73 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 2	0.69 mg/l (EC50; 48 h; Daphnia magna)
Threshold limit algae 2	3.5 mg/l (EC50; 96 h; Selenastrum capricornutum)
<b>Methylene Chloride (75-09-2)</b>	
LC50 fish 1	193 mg/l (LC50; 96 h; Pimephales promelas)
EC50 Daphnia 1	168.2 mg/l (EC50; 48 h)
<b>di-n-octyl phthalate (117-84-0)</b>	
LC50 fish 2	0.69 mg/l (LC50; 168 h)
<b>methanol (67-56-1)</b>	
LC50 fish 1	15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)
EC50 Daphnia 1	> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>methanol (67-56-1)</b>	
LC50 fish 2	10800 mg/l (LC50; 96 h; Salmo gairdneri)
<b>12.2. Persistence and degradability</b>	
<b>Custom 8270 Calibration Standard</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.
<b>acenaphthene (83-32-9)</b>	
Persistence and degradability	Not readily biodegradable in water. Adsorbs into the soil.
<b>acenaphthylene (208-96-8)</b>	
Persistence and degradability	Biodegradability in soil: no data available.
<b>anthracene (120-12-7)</b>	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water.
ThOD	3.41 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.02
<b>azobenzene (103-33-3)</b>	
Persistence and degradability	Not readily biodegradable in water. No (test)data on mobility of the substance available.
<b>benzo[a]anthracene (56-55-3)</b>	
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Ozonation in water. Forming sediments in water. Biodegradability in soil: no data available. Inhibits biodegradation processes in the soil. Adsorbs into the soil. Photodegradation in the air.
ThOD	2.95 g O <sub>2</sub> /g substance
<b>benzo[a]pyrene (50-32-8)</b>	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil.
Chemical oxygen demand (COD)	2.92 g O <sub>2</sub> /g substance
ThOD	2.92 g O <sub>2</sub> /g substance
<b>Benzo(b)fluoranthene (205-99-2)</b>	
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
ThOD	2.92 g O <sub>2</sub> /g substance
<b>benzo(ghi)perylene (191-24-2)</b>	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
ThOD	2.9 g O <sub>2</sub> /g substance
<b>benzo[k]fluoranthene (207-08-9)</b>	
Persistence and degradability	Not readily biodegradable in water. Ozonation in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
ThOD	2.92 g O <sub>2</sub> /g substance
<b>benzyl butyl phthalate (85-68-7)</b>	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradability in soil: no data available. Adsorbs into the soil.
<b>bis(2-chloroethoxy) methane (111-91-1)</b>	
Persistence and degradability	Not readily biodegradable in water.
ThOD	1.2 g O <sub>2</sub> /g substance
<b>bis(2-chloroethyl) ether (111-44-4)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>Bis(2-chloroisopropyl) ether (108-60-1)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>bis(2-ethylhexyl)adipate (103-23-1)</b>	
Persistence and degradability	Readily biodegradable in water. Low potential for mobility in soil. Photolysis in the air.
<b>Bis(2-ethylhexyl) phthalate (117-81-7)</b>	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. Low potential for mobility in soil. Photolysis in the air.
<b>4-bromodiphenyl ether (101-55-3)</b>	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water.
<b>carbazole (86-74-8)</b>	
Persistence and degradability	Not readily biodegradable in water.

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>4-chloroaniline (106-47-8)</b>	
Persistence and degradability	Inherently biodegradable. Not readily biodegradable in water. Photooxidation in water. Non degradable in the soil. Photolysis in the air.
<b>4-chloro-3-methylphenol (59-50-7)</b>	
Persistence and degradability	Biodegradable in water.
Chemical oxygen demand (COD)	1.5 - 1.8 g O <sub>2</sub> /g substance
<b>2-chlorophenol (95-57-8)</b>	
Persistence and degradability	Not readily biodegradable in water. Inherently biodegradable. Biodegradable in the soil.
<b>chrysene (218-01-9)</b>	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
<b>dibenz(a,h)anthracene (53-70-3)</b>	
Persistence and degradability	Not readily biodegradable in water. Ozonation in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
<b>dibenzofuran (132-64-9)</b>	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water.
<b>1,2-dichlorobenzene (95-50-1)</b>	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
BOD (% of ThOD)	0
<b>1,3-dichlorobenzene (541-73-1)</b>	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Low potential for adsorption in soil.
<b>1,4-dichlorobenzene (106-46-7)</b>	
Persistence and degradability	Readily biodegradable in water. Non degradable in the soil. Adsorbs into the soil.
ThOD	1.52 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.65 (Calculated value)
<b>2,4-dichlorophenol (120-83-2)</b>	
Persistence and degradability	Not readily biodegradable in water. Inherently biodegradable. Biodegradable in the soil. No (test)data on mobility of the substance available.
<b>dibutyl phthalate (84-74-2)</b>	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	0.43 g O <sub>2</sub> /g substance
ThOD	2.24 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.19
<b>1,2-dinitrobenzene (528-29-0)</b>	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.
<b>1,3-dinitrobenzene (99-65-0)</b>	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.
<b>1,4-dinitrobenzene (100-25-4)</b>	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.
<b>4,6-Dinitro-2-methylphenol (534-52-1)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>2,4-dinitrophenol (51-28-5)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradability in soil: no data available.
<b>2,4-dinitrotoluene (121-14-2)</b>	
Persistence and degradability	Not readily biodegradable in water.
Chemical oxygen demand (COD)	1.6 g O <sub>2</sub> /g substance
<b>2,6-dinitrotoluene (606-20-2)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>N-nitrosodiphenylamine (86-30-6)</b>	
Persistence and degradability	Not readily biodegradable in water. Biodegradability in soil: no data available.
<b>fluoranthene (206-44-0)</b>	
Persistence and degradability	Forming sediments in water.
<b>fluorene (86-73-7)</b>	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.



# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>fluorene (86-73-7)</b>	
ThOD	2.02 g O <sub>2</sub> /g substance
<b>hexachlorobenzene (118-74-1)</b>	
Persistence and degradability	Not readily biodegradable in water. Not easily biodegradable in water in anaerobic conditions. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
<b>hexachlorobuta-1,3-diene (87-68-3)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradability in soil: no data available.
<b>Hexachlorocyclopentadiene (77-47-4)</b>	
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Biodegradable in the soil. Adsorbs into the soil. Photolysis in the air.
<b>hexachloroethane (67-72-1)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>indeno(1,2,3-cd)pyrene (193-39-5)</b>	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
ThOD	2.9 g O <sub>2</sub> /g substance
<b>isophorone (78-59-1)</b>	
Persistence and degradability	Readily biodegradable in water. Ozonation in the air. Photolysis in the air.
ThOD	2.78 g O <sub>2</sub> /g substance
<b>1-methylnaphthalene (90-12-0)</b>	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water.
<b>2-methylnaphthalene (91-57-6)</b>	
Persistence and degradability	Inherently biodegradable. Not readily biodegradable in water.
<b>2-Methylphenol (95-48-7)</b>	
Persistence and degradability	Readily biodegradable in water. Photodegradation in the air.
Biochemical oxygen demand (BOD)	1.69 - 1.74 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.38 g O <sub>2</sub> /g substance
ThOD	2.52 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.65
<b>3-Methylphenol (108-39-4)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.
Biochemical oxygen demand (BOD)	1.7 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.4 g O <sub>2</sub> /g substance
ThOD	2.52 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.68
<b>4-Methylphenol (106-44-5)</b>	
Persistence and degradability	Readily biodegradable in water. Photolysis in the air.
Biochemical oxygen demand (BOD)	1.45 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.4 g O <sub>2</sub> /g substance
ThOD	2.52 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.57
<b>naphthalene (91-20-3)</b>	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	0 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.22 g O <sub>2</sub> /g substance
ThOD	2.99 g O <sub>2</sub> /g substance
<b>2-Nitroaniline (88-74-4)</b>	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil. Photolysis in the air.
<b>3-Nitroaniline (99-09-2)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>4-Nitroaniline (100-01-6)</b>	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil. Photodegradation in the air.
<b>nitrobenzene (98-95-3)</b>	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	0 g O <sub>2</sub> /g substance

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>nitrobenzene (98-95-3)</b>	
ThOD	1.95 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0
<b>N-Nitrosodimethylamine (62-75-9)</b>	
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Photolysis in the air.
<b>2,3,4,5,6-pentachlorophenol (87-86-5)</b>	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.
<b>phenanthrene (85-01-8)</b>	
Persistence and degradability	Biodegradable in water. Forming sediments in water. Adsorbs into the soil.
<b>phenol (108-95-2)</b>	
Persistence and degradability	Readily biodegradable in water. Photolysis in water. Readily biodegradable in the soil. Inhibits biodegradation processes in the soil. Low potential for adsorption in soil. Photooxidation in the air.
Biochemical oxygen demand (BOD)	1.68 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.28 g O <sub>2</sub> /g substance
ThOD	2.38 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.71
<b>pyrene (129-00-0)</b>	
Persistence and degradability	Not readily biodegradable in water. Photolysis in water. Ozonation in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil. Photodegradation in the air.
<b>pyridine (110-86-1)</b>	
Persistence and degradability	Readily biodegradable in water. Non degradable in the soil. Biodegradable in the soil under anaerobic conditions.
Biochemical oxygen demand (BOD)	1.15 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.05 g O <sub>2</sub> /g substance
ThOD	2.23 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.52
<b>2,3,4,6-tetrachlorophenol (58-90-2)</b>	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.
<b>2,3,5,6-tetrachlorophenol (935-95-5)</b>	
Persistence and degradability	Not readily biodegradable in water. Biodegradability in soil: no data available.
<b>1,2,4-trichlorobenzene (120-82-1)</b>	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	0 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0
<b>2,4,5-trichlorophenol (95-95-4)</b>	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.
<b>2,4,6-trichlorophenol (88-06-2)</b>	
Persistence and degradability	Readily biodegradable in water. Readily biodegradable in the soil. No (test)data on mobility of the substance available.
<b>Methylene Chloride (75-09-2)</b>	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil.
<b>di-n-octyl phthalate (117-84-0)</b>	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water.
<b>aniline (62-53-3)</b>	
Persistence and degradability	Readily biodegradable in water. Photodegradation in water. Inhibition of nitrification. Biodegradable in the soil. Low potential for adsorption in soil.
BOD (% of ThOD)	0.62
<b>methanol (67-56-1)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.42 g O <sub>2</sub> /g substance
ThOD	1.5 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.8 (Literature study)

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 12.3. Bioaccumulative potential

Custom 8270 Calibration Standard	
Bioaccumulative potential	Not established.
<b>acenaphthene (83-32-9)</b>	
BCF fish 1	257 - 1270 (BCF)
BCF fish 2	387 (BCF; 28 days)
Log Pow	3.92 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation ( $500 \leq \text{BCF} \leq 5000$ ).
<b>acenaphthylene (208-96-8)</b>	
Bioaccumulative potential	No bioaccumulation data available.
<b>anthracene (120-12-7)</b>	
BCF fish 1	903 - 2820 (BCF)
BCF fish 2	9200 (BCF)
BCF other aquatic organisms 1	7770 (BCF; 24 h; Chlorella sp.)
BCF other aquatic organisms 2	10500 (BCF)
Log Pow	4.5
Bioaccumulative potential	High potential for bioaccumulation ( $\text{BCF} > 5000$ ).
<b>azobenzene (103-33-3)</b>	
Log Pow	3.82
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{Log Kow} < 4$ ).
<b>benzo[a]anthracene (56-55-3)</b>	
BCF fish 1	350 (BCF; 72 h)
BCF other aquatic organisms 1	1106 (BCF; 24 h)
BCF other aquatic organisms 2	18000 (BCF; 192 h)
Log Pow	5.61 - 5.79
Bioaccumulative potential	High potential for bioaccumulation ( $\text{BCF} > 5000$ ).
<b>benzo[a]pyrene (50-32-8)</b>	
BCF fish 1	480 (BCF; 72 h)
BCF fish 2	70.7 (BCF; 168 h; Salmo salar)
BCF other aquatic organisms 1	3000 (BCF; 192 h)
BCF other aquatic organisms 2	1.5 (BCF; 24 h)
Log Pow	5.97 - 6.06
Bioaccumulative potential	High potential for bioaccumulation ( $\text{Log Kow} > 5$ ).
<b>Benzo(b)fluoranthene (205-99-2)</b>	
BCF other aquatic organisms 1	2800 (BCF; 168 h)
Log Pow	6.57
Bioaccumulative potential	High potential for bioaccumulation ( $\text{Log Kow} > 5$ ).
<b>benzo(ghi)perylene (191-24-2)</b>	
Log Pow	6.51 - 7.23 (Calculated)
Bioaccumulative potential	Bioaccumable.
<b>benzo[k]fluoranthene (207-08-9)</b>	
BCF fish 1	8750 (BCF)
BCF other aquatic organisms 1	0.0013 mg/kg (BCF)
BCF other aquatic organisms 2	37000 (BCF)
Log Pow	6.84
Bioaccumulative potential	High potential for bioaccumulation ( $\text{BCF} > 5000$ ).
<b>benzyl butyl phthalate (85-68-7)</b>	
BCF fish 1	188 (BCF; 408 h)
BCF fish 2	663 (BCF; 504 h)
BCF other aquatic organisms 1	26 - 270 (BCF)
Log Pow	3.57 - 5.8
Bioaccumulative potential	High potential for bioaccumulation ( $\text{Log Kow} > 5$ ).
<b>bis(2-chloroethoxy) methane (111-91-1)</b>	
Log Pow	1.3 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{Log Kow} < 4$ ).
<b>bis(2-chloroethyl) ether (111-44-4)</b>	
BCF fish 1	< 10 (BCF)

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>bis(2-chloroethyl) ether (111-44-4)</b>	
BCF fish 2	10.96 (BCF; 336 h)
Log Pow	1.12 - 1.58
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>Bis(2-chloroisopropyl) ether (108-60-1)</b>	
BCF fish 1	< <5.2/12,BCF
Log Pow	2.48
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>bis(2-ethylhexyl)adipate (103-23-1)</b>	
BCF fish 1	27 (BCF; Other; 28 days; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)
BCF fish 2	3.162 (BCF)
Log Pow	8.1 (Calculated; 8.94; Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>Bis(2-ethylhexyl) phthalate (117-81-7)</b>	
BCF fish 2	155 - 886 (BCF; 56 days; Pimephales promelas)
Log Pow	7.68 (Experimental value; Other)
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
<b>4-bromodiphenyl ether (101-55-3)</b>	
BCF fish 1	5690 (BCF)
BCF other aquatic organisms 1	1300 (BCF)
Log Pow	4.28 - 5.243
Bioaccumulative potential	Bioaccumable.
<b>carbazole (86-74-8)</b>	
BCF fish 1	34 - 241 (BCF)
BCF fish 2	500 (BCF)
BCF other aquatic organisms 1	115 (BCF)
BCF other aquatic organisms 2	108 (BCF; 24 h)
Log Pow	3.84 (OECD 107: Partition Coefficient (n-octanol/water); Shake Flask Method)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
<b>4-chloroaniline (106-47-8)</b>	
BCF fish 1	< 20 (BCF; 72 h)
BCF fish 2	0.8 - 1.7 (BCF; 336 h)
BCF other aquatic organisms 1	260 (BCF; 24 h; Chlorella sp.)
Log Pow	1.76 - 1.83
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>4-chloro-3-methylphenol (59-50-7)</b>	
BCF fish 1	5.5 - 13 (BCF)
Log Pow	2.78 - 3.10
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>2-chlorophenol (95-57-8)</b>	
BCF fish 2	14 - 29 (BCF; 6 weeks; Cyprinus carpio)
Log Pow	2.15 (Literature)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>4-Chlorodiphenyl ether (7005-72-3)</b>	
Log Pow	4.2
<b>chrysene (218-01-9)</b>	
BCF other aquatic organisms 1	4440 (BCF)
Log Pow	5.81 - 5.86 (Experimental value)
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
<b>dibenz(a,h)anthracene (53-70-3)</b>	
Log Pow	5.97 - 6.84
<b>dibenzofuran (132-64-9)</b>	
BCF fish 1	2420 (BCF)
BCF fish 2	524 - 2420 (BCF)
Log Pow	4.12 - 5.16
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>1,2-dichlorobenzene (95-50-1)</b>	
BCF fish 1	90 - 260 (BCF)
BCF fish 2	270 - 560 (BCF)
BCF other aquatic organisms 1	14791 (BCF)
BCF other aquatic organisms 2	28840 (BCF)
Log Pow	3.43 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation ( $500 \leq \text{BCF} \leq 5000$ ).
<b>1,3-dichlorobenzene (541-73-1)</b>	
BCF fish 1	420 - 740 (BCF)
BCF fish 2	57 - 370 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 8 weeks; Cyprinus carpio; Flow-through system; Fresh water; Experimental value)
Log Pow	3.4 - 4.6
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{BCF} < 500$ ).
<b>1,4-dichlorobenzene (106-46-7)</b>	
BCF fish 1	100 (BCF)
BCF fish 2	214 - 720 (BCF)
BCF other aquatic organisms 1	20 (BCF)
Log Pow	3.39 - 3.62 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation ( $500 \leq \text{BCF} \leq 5000$ ).
<b>2,4-dichlorophenol (120-83-2)</b>	
BCF fish 1	7.1 - 69 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 8 weeks; Cyprinus carpio; Fresh water)
Log Pow	3 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{BCF} < 500$ ).
<b>2,4-Dimethylphenol (105-67-9)</b>	
BCF fish 1	150 (BCF; 672 h; Lepomis macrochirus)
Log Pow	2.2 - 2.5
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{BCF} < 500$ ).
<b>dibutyl phthalate (84-74-2)</b>	
BCF fish 1	12 (BCF)
BCF fish 2	117 (BCF)
BCF other aquatic organisms 1	22 - 42 (BCF)
BCF other aquatic organisms 2	5000 (BCF; 72 h)
Log Pow	3.23 - 5.6
Bioaccumulative potential	High potential for bioaccumulation ( $\text{Log Kow} > 5$ ).
<b>1,2-dinitrobenzene (528-29-0)</b>	
BCF fish 1	10 (BCF)
Log Pow	1.58 - 1.69
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{BCF} < 500$ ).
<b>1,3-dinitrobenzene (99-65-0)</b>	
BCF fish 1	4.5 - 7.5 (BCF; 72 h)
BCF fish 2	74.13 (BCF)
Log Pow	1.49 - 1.6
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{BCF} < 500$ ).
<b>1,4-dinitrobenzene (100-25-4)</b>	
BCF fish 1	5 (BCF)
Log Pow	1.46 - 1.49
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{BCF} < 500$ ).
<b>4,6-Dinitro-2-methylphenol (534-52-1)</b>	
BCF fish 1	0.3 - 2.9 (BCF)
Log Pow	2.12 - 3.1
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{BCF} < 500$ ).
<b>2,4-dinitrophenol (51-28-5)</b>	
BCF fish 1	< 3.7 (BCF)
Log Pow	1.05 - 1.59
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{BCF} < 500$ ).
<b>2,4-dinitrotoluene (121-14-2)</b>	
BCF fish 1	102.8 (BCF; 336 h)

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>2,4-dinitrotoluene (121-14-2)</b>	
BCF fish 2	16 - 204 (BCF)
BCF other aquatic organisms 1	13 (BCF; 96 h)
BCF other aquatic organisms 2	58 (BCF; 96 h)
Log Pow	1.98 - 2.8
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>2,6-dinitrotoluene (606-20-2)</b>	
BCF fish 1	22 (BCF)
BCF other aquatic organisms 1	5225 (BCF)
Log Pow	1.72 - 2.05
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>N-nitrosodiphenylamine (86-30-6)</b>	
BCF fish 1	217 (BCF; 336 h; Lepomis macrochirus)
BCF fish 2	4.6 - 38 (BCF)
Log Pow	3.13 - 3.96
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>fluoranthene (206-44-0)</b>	
BCF fish 1	3981 (BCF)
BCF fish 2	6110 (BCF)
BCF other aquatic organisms 1	10000 (BCF; 192 h)
BCF other aquatic organisms 2	695 (BCF; 48 h)
Log Pow	5.33
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
<b>fluorene (86-73-7)</b>	
BCF fish 1	2230 (BCF)
BCF fish 2	219 - 830 (BCF)
Log Pow	4.12 - 4.67
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
<b>hexachlorobenzene (118-74-1)</b>	
BCF fish 1	20000 (BCF)
BCF fish 2	30000 (BCF)
BCF other aquatic organisms 1	25000 (BCF)
BCF other aquatic organisms 2	1130 (BCF; 720 h)
Log Pow	5.73 - 6.39 (Experimental value)
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
<b>hexachlorobuta-1,3-diene (87-68-3)</b>	
BCF fish 1	17000 (BCF)
BCF fish 2	7000 (BCF)
BCF other aquatic organisms 1	45.36 (BCF)
BCF other aquatic organisms 2	3000 (BCF)
Log Pow	3.74 - 4.90
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
<b>Hexachlorocyclopentadiene (77-47-4)</b>	
BCF fish 1	1230 (BCF; 72 h; Leuciscus idus)
BCF other aquatic organisms 1	1090 (BCF; 24 h; Chlorella sp.)
Log Pow	3.99-5.51
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
<b>hexachloroethane (67-72-1)</b>	
BCF fish 1	1200 (BCF)
BCF fish 2	756 mg/l (BCF; 768 h)
Log Pow	3.34 - 4.62
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
<b>indeno(1,2,3-cd)pyrene (193-39-5)</b>	
BCF other aquatic organisms 1	10000 (BCF; 240 h)
Log Pow	6.6 - 7.7
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
<b>isophorone (78-59-1)</b>	
BCF fish 1	7 (24 h; Lepomis macrochirus)

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>isophorone (78-59-1)</b>	
BCF fish 2	< 1.1/<10,Cyprinus carpio; Test duration: 6 weeks
Log Pow	1.7 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>1-methylnaphthalene (90-12-0)</b>	
BCF fish 1	20 (BCF; 5 weeks)
BCF fish 2	113-2000,BCF; 1 - 2 weeks
Log Pow	3.87 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>2-methylnaphthalene (91-57-6)</b>	
BCF fish 1	407 (BCF; 624 h; Lepomis macrochirus)
BCF fish 2	190 (BCF; 840 h; Oncorhynchus kisutch)
Log Pow	3.86 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>2-Methylphenol (95-48-7)</b>	
Log Pow	1.5 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>3-Methylphenol (108-39-4)</b>	
BCF fish 1	20 (BCF; 72 h)
BCF fish 2	10.7 (BCF)
BCF other aquatic organisms 1	4900 (BCF; 24 h)
Log Pow	1.96 - 2.01 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>4-Methylphenol (106-44-5)</b>	
BCF fish 1	4 (BCF)
Log Pow	1.97 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>naphthalene (91-20-3)</b>	
BCF fish 1	23 - 168 (BCF; 8 weeks; Cyprinus carpio)
Log Pow	3.3 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>2-Nitroaniline (88-74-4)</b>	
BCF fish 1	2.1 - 4.9 (BCF)
BCF fish 2	8.1 (BCF; 24 h; Brachydanio rerio)
Log Pow	1.44 - 1.83
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>3-Nitroaniline (99-09-2)</b>	
BCF fish 1	< 1.1/<10,BCF
Log Pow	1.37
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>4-Nitroaniline (100-01-6)</b>	
BCF fish 1	< 2.9/<10,BCF
Log Pow	1.4
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>nitrobenzene (98-95-3)</b>	
BCF fish 1	15 (BCF; 672 h)
BCF fish 2	1.6 - 7.7 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 42 days; Cyprinus carpio; Flow-through system; Fresh water; Experimental value)
BCF other aquatic organisms 1	24 (BCF)
Log Pow	1.85 (Calculated; 1.86; Experimental value; EU Method A.8: Partition Coefficient)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>N-Nitrosodimethylamine (62-75-9)</b>	
Log Pow	-0.77 - -0.57
Bioaccumulative potential	Bioaccumulation: not applicable.
<b>N-Nirosodi-n-propylamine (621-64-7)</b>	
Log Pow	1.31 - 1.36
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>2,3,4,5,6-pentachlorophenol (87-86-5)</b>	
BCF fish 1	770 (BCF; 768 h)
BCF fish 2	39 - 224 (BCF)
BCF other aquatic organisms 1	1250 (BCF)
Log Pow	4.07 - 5.19
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
<b>phenanthrene (85-01-8)</b>	
BCF fish 1	5100 (BCF; 672 h; Pimephales promelas)
BCF fish 2	2630 (BCF)
BCF other aquatic organisms 1	1760 (BCF)
BCF other aquatic organisms 2	325 (BCF; 24 h)
Log Pow	4.46
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
<b>phenol (108-95-2)</b>	
Log Pow	1.47 (Experimental value; Equivalent or similar to OECD 117; 30 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>pyrene (129-00-0)</b>	
BCF fish 1	600 - 970 (BCF)
BCF fish 2	4810 (BCF)
BCF other aquatic organisms 1	2692 (BCF)
Log Pow	4.88 - 5.32
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
<b>pyridine (110-86-1)</b>	
Log Pow	0.65 - 1.04 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>2,3,4,6-tetrachlorophenol (58-90-2)</b>	
BCF fish 1	200 (BCF; 24 h)
BCF fish 2	93 (BCF; 24 h)
Log Pow	4.1 - 4.8
Bioaccumulative potential	Potential for bioaccumulation ( $4 \geq \text{Log Kow} \leq 5$ ).
<b>2,3,5,6-tetrachlorophenol (935-95-5)</b>	
Log Pow	3.88 - 4.92
Bioaccumulative potential	No bioaccumulation data available.
<b>1,2,4-trichlorobenzene (120-82-1)</b>	
BCF fish 1	1200 - 3700 (BCF)
BCF fish 2	1140 - 4420 (BCF)
BCF other aquatic organisms 1	250 (BCF; 24 h; Chlorella sp.)
BCF other aquatic organisms 2	142 (BCF)
Log Pow	4.02 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation ( $500 \leq \text{BCF} \leq 5000$ ).
<b>2,4,5-trichlorophenol (95-95-4)</b>	
BCF fish 1	62 (BCF)
BCF fish 2	121 - 825 (BCF)
Log Pow	3.06 - 4.19
Bioaccumulative potential	Potential for bioaccumulation ( $500 \leq \text{BCF} \leq 5000$ ).
<b>2,4,6-trichlorophenol (88-06-2)</b>	
BCF fish 2	12130 (BCF; 36 days; Poecilia reticulata)
Log Pow	3.4 - 4.05 (Literature)
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
<b>Methylene Chloride (75-09-2)</b>	
BCF fish 1	2 - 40 (BCF)
Log Pow	1.25 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>di-n-octyl phthalate (117-84-0)</b>	
BCF fish 1	116 (BCF)
BCF fish 2	9400 (BCF; 792 h; Gambusia affinis)
BCF other aquatic organisms 1	2600 (BCF; 792 h)
BCF other aquatic organisms 2	28500 (BCF; 792 h)



# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>di-n-octyl phthalate (117-84-0)</b>	
Log Pow	4.6 - 9.2
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
<b>aniline (62-53-3)</b>	
BCF fish 2	2.6 (BCF; Danio rerio; Static system)
Log Pow	0.91 (Experimental value; EU Method A.8: Partition Coefficient; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>methanol (67-56-1)</b>	
BCF fish 1	< 10 (BCF; 72 h; Leuciscus idus)
Log Pow	-0.77 (Experimental value; Other)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>12.4. Mobility in soil</b>	
<b>azobenzene (103-33-3)</b>	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
<b>bis(2-chloroethyl) ether (111-44-4)</b>	
Surface tension	0.038 N/m (19 °C)
<b>Bis(2-chloroisopropyl) ether (108-60-1)</b>	
Ecology - soil	Not toxic to plants.
<b>bis(2-ethylhexyl)adipate (103-23-1)</b>	
Log Koc	log Koc, SRC PCKOCWIN v1.66; 4.687; Calculated value
<b>Bis(2-ethylhexyl) phthalate (117-81-7)</b>	
Surface tension	0.032 N/m (20 °C)
<b>4-chloroaniline (106-47-8)</b>	
Ecology - soil	Soil contaminant.
<b>2-chlorophenol (95-57-8)</b>	
Surface tension	0.042 N/m (13 °C)
<b>1,2-dichlorobenzene (95-50-1)</b>	
Surface tension	0.037 N/m (20 °C)
<b>1,3-dichlorobenzene (541-73-1)</b>	
Surface tension	0.036 N/m (20 °C)
Log Koc	log Koc, Other; 2.56; Experimental value
<b>1,4-dichlorobenzene (106-46-7)</b>	
Surface tension	0.03 N/m (55 °C)
<b>dibutyl phthalate (84-74-2)</b>	
Surface tension	0.034 N/m (20 °C)
<b>2,4-dinitrophenol (51-28-5)</b>	
Ecology - soil	Toxic to flora.
<b>2,4-dinitrotoluene (121-14-2)</b>	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
<b>hexachlorobenzene (118-74-1)</b>	
Ecology - soil	Not toxic to bees.
<b>hexachlorobuta-1,3-diene (87-68-3)</b>	
Ecology - soil	Soil contaminant.
<b>Hexachlorocyclopentadiene (77-47-4)</b>	
Surface tension	0.0375 N/m (20 °C)
Log Koc	Koc, 4265; Experimental value
<b>isophorone (78-59-1)</b>	
Surface tension	0.032 N/m
<b>1-methylnaphthalene (90-12-0)</b>	
Log Koc	Koc, 2300
<b>2-Methylphenol (95-48-7)</b>	
Surface tension	0.04 N/m (20 °C)
<b>3-Methylphenol (108-39-4)</b>	
Surface tension	0.04 N/m (20 °C)
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<b>4-Methylphenol (106-44-5)</b>	
Surface tension	0.041 N/m (40 °C)
<b>naphthalene (91-20-3)</b>	
Surface tension	0.03 N/m (100 °C)
<b>nitrobenzene (98-95-3)</b>	
Surface tension	0.0439 N/m
Log Koc	Koc,Other; 118; Calculated value; log Koc; Other; 2.07; Calculated value
<b>phenanthrene (85-01-8)</b>	
Ecology - soil	Soil contaminant.
<b>phenol (108-95-2)</b>	
Surface tension	0.0713 N/m (20 °C)
<b>pyridine (110-86-1)</b>	
Surface tension	0.038 N/m (20 °C)
<b>1,2,4-trichlorobenzene (120-82-1)</b>	
Surface tension	0.039 N/m (20 °C)
<b>Methylene Chloride (75-09-2)</b>	
Surface tension	0.028 N/m (20 °C)
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
<b>aniline (62-53-3)</b>	
Surface tension	0.071 N/m (20 °C; 0.042 N/m; 25 °C; 0.039 N/m; 50 °C; 0.037 N/m; 75 °C)
Log Koc	Koc,130; Experimental value; GLP
<b>methanol (67-56-1)</b>	
Surface tension	0.023 N/m (20 °C)
Log Koc	Koc,PCKOCWIN v1.66; 1; Calculated value

### 12.5. Results of PBT and vPvB assessment

Component	
anthracene (120-12-7)	This substance/mixture meets the PBT criteria of REACH, annex XIII This substance/mixture does not meet the vPvB criteria of REACH, annex XIII
benzo[a]pyrene (50-32-8)	This substance/mixture meets the PBT criteria of REACH, annex XIII This substance/mixture meets the vPvB criteria of REACH, annex XIII
benzyl butyl phthalate (85-68-7)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII This substance/mixture does not meet the vPvB criteria of REACH, annex XIII
(117-81-7)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII This substance/mixture does not meet the vPvB criteria of REACH, annex XIII
nitrobenzene (98-95-3)	This substance/mixture meets the PBT criteria of REACH, annex XIII This substance/mixture does not meet the vPvB criteria of REACH, annex XIII
dibutyl phthalate (84-74-2)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII This substance/mixture does not meet the vPvB criteria of REACH, annex XIII
2,4-dinitrotoluene (121-14-2)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII This substance/mixture does not meet the vPvB criteria of REACH, annex XIII

### 12.6. Other adverse effects

Additional information : Avoid release to the environment

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Additional information : Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion.  
Ecology - waste materials : Hazardous waste due to toxicity. Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No. (ADR) : 1992  
UN-No. (IATA) : 1992  
UN-No. (IMDG) : 1992  
UN-No. (ADN) : 1992

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, TOXIC, N.O.S.  
Proper Shipping Name (IATA) : Flammable liquid, toxic, n.o.s.  
Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, TOXIC, N.O.S.  
Proper Shipping Name (ADN) : FLAMMABLE LIQUID, TOXIC, N.O.S.  
Transport document description (ADR) : UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S., 3 (6.1), II, (D/E), ENVIRONMENTALLY HAZARDOUS

### 14.3. Packing group

Class (ADR) : 3  
Classification code (ADR) : FT1  
Class (IATA) : 3  
Class (IMDG) : 3  
Class (ADN) : 3  
Classification code (ADN) : FT1  
Subsidiary risks (ADR) : 6.1  
Subsidiary risks (IMDG) : 6.1  
Hazard labels (ADR) : 3, 6.1



Hazard labels (IATA) : 3, 6.1



Hazard labels (IMDG) : 3, 6.1



Hazard labels (ADN) : 3, 6.1



### 14.4. Packing group

Packing group (ADR) : II  
Packing group (IATA) : II  
Packing group (IMDG) : II  
Packing group (ADN) : II

### 14.5. Environmental hazards

Dangerous for the environment :



Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Hazard identification number (Kemler No.) : 336  
Classification code (ADR) : FT1  
Orange plates :



# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Special provision (ADR)	: 274
Transport category (ADR)	: 2
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E2

### 14.6.2. Transport by sea

Special provision (IMDG)	: 274
Limited quantities (IMDG)	: 1 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2, TP13
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: B
Properties and observations (IMDG)	: Flammable toxic liquid which is not specified by name in this class or, on account of its characteristics, in some other class. Toxic if swallowed, by skin contact or by inhalation.

### 14.6.3. Air transport

CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
PCA packing instructions (IATA)	: 352
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA max net quantity (IATA)	: 1L
PCA Excepted quantities (IATA)	: E2
Special provision (IATA)	: A3
ERG code (IATA)	: 3HP

### 14.6.4. Inland waterway transport

Special provision (ADN)	: 274, 802
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP, EX, TOX, A
Ventilation (ADN)	: VE01, VE02
Number of blue cones/lights (ADN)	: 2
Carriage prohibited (ADN)	: No

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains substance on the candidate list in concentration  $\geq 0.1\%$  or with a lower specific limit: Anthracene (EC 204-371-1, CAS 120-12-7), Benzo[def]chrysene (EC 200-028-5, CAS 50-32-8), Benzyl butyl phthalate (BBP) (EC 201-622-7, CAS 85-68-7), Bis (2-ethyl(hexyl))phthalate (DEHP) (EC 204-211-0, CAS 117-81-7), Nitrobenzene (EC 202-716-0, CAS 98-95-3), Dibutyl phthalate (DBP) (EC 201-557-4, CAS 84-74-2), 2,4-Dinitrotoluene (EC 204-450-0, CAS 121-14-2)

Contains REACH Annex XIV substances:

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK) : 3 - strongly hazardous to water

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# Custom 8270 Calibration Standard

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

PHV SDS EU

*Copyright 2015 Phenova, Inc. License granted to make paper copies for internal use. The information contained in this Safety Data Sheet is based on our current knowledge. The information contained in this document should be used only as a guide for appropriate safety precautions and should not be considered to be all inclusive. Users should make their own investigation to determine the suitability of the information for their particular purposes. The document does not represent any guarantee of the properties of the product. Phenova, Inc. shall not be held liable for any damage resulting from the handling or use of this product. Visit the Terms and Conditions of Sale link at [www.phenova.com](http://www.phenova.com) for additional terms and conditions of sale.*