



**Certified  
Reference  
Standards**

**Allergens**

**in Cosmetics and  
Personal Care Products**

*EU Directive Lists*

*Chlorofluorocarbon  
Propellants (CFR)*

*Phthalates*

*Parabens*

*Nitrosamines*

*Metals*

*Sun Block*



**ALLERGENS**

**AccuStandard**

# Allergens by AccuStandard®

It has been estimated that 10% of the U.S. population is affected by allergens. Cosmetic allergens can be found in everything from shampoos to skin creams. The average person is now exposed to significantly higher levels of these chemicals than people were exposed to only a generation ago. The resulting synergistic effect, coupled with environmental exposure to chemicals, is the focus of an ever-increasing number of studies.

Some of these chemicals cause, or are suspected of causing, allergic reactions. Some chemicals are toxic. Phthalates are a health issue as well as a food safety concern as an Indirect Food Additive. They tend to migrate from plastic containers and wrappings into food. Finally, pesticides are a cosmetic ingredient issue since they can be present with other ingredients such as lanolin.

AccuStandard offers AllergenCheck® Standards to meet analytical requirements of the cosmetic, pharmaceutical and food industries. These products coupled with the widest selection of Certified Reference Standards for pesticide and pesticide metabolite analysis offers one-stop shopping for the analysis of allergens.

Many of the Standards are synthesized by AccuStandard and are not available elsewhere. If you do not see the chemicals or their metabolites that you need, let us know and we may be able to synthesize them. Additionally, if a certain custom mixture of allergens would make your analysis easier, we can provide you with a custom formulation that will save you time.

Allergen Standards are listed as follows:

- Neats and Single Solutions listed alphabetically by compound
- Allergens regulated by the EU
- Allergen standards listed by type

Allergen<sup>✓</sup>Check™



# Allergens

## Individual Allergens

Catalog Numbers Units	
N	Neats at 100 mg
S	Solutions in 1 mL

Compound	CAS No.	Conc.	Matrix	Cat. No.
2-Acetylpyridine	1122-62-9	100 mg	Neat	ALR-066N
		100 µg/mL	MeOH	ALR-066S
Alanroot (Inula helenium)	97676-35-2	1000 µg/mL	EtOH	ALR-027S-ET-10X
<b>Alkylphenol ethoxylates:</b>				
Nonylphenol-ethylene oxide condensate (Nonoxynol-9)	26027-38-3	100 mg	Neat	ALR-079N
		100 µg/mL	MeOH	ALR-079S
Polyethylene glycol nonaphenyl ether (Triton N-101)	123359-41-1	100 mg	Neat	ALR-078N
		100 µg/mL	MeOH	ALR-078S
Allylthiocyanate	57-06-7	100 mg	Neat	ALR-028N
		1000 µg/mL	EtOH	ALR-028S-ET-10X
Amyl cinnamal	122-40-7	100 mg	Neat	ALR-001N
		1000 µg/mL	AcCN	ALR-001S-CN-10X
Amylcinnamyl alcohol	101-85-9	1000 µg/mL	EtOH	ALR-008S-ET-10X
Anisyl alcohol	105-13-5	100 mg	Neat	ALR-014N
		1000 µg/mL	EtOH	ALR-014S-ET-10X
Arsenic	7440-38-2	1000 µg/mL	2-5% HNO <sub>3</sub>	ALR-MET-01S
Balsam of Peru	8007-00-9	100 mg	Neat	ALR-080N
		100 µg/mL	MeOH	ALR-080S
Benzophenone-3 (Bp-3)	131-57-7	100 mg	Neat	ALR-081N
		100 µg/mL	AcCN	ALR-081S-CN
Benzyl alcohol	100-51-6	100 mg	Neat	ALR-002N
		1000 µg/mL	EtOH	ALR-002S-ET-10X
Benzyl benzoate	120-51-4	100 mg	Neat	ALR-019N
		1000 µg/mL	EtOH	ALR-019S-ET-10X
Benzyl butyl phthalate	85-68-7	100 mg	Neat	ALR-082N
		100 µg/mL	MeOH	ALR-082S
Benzyl cinnamate	103-41-3	100 mg	Neat	ALR-015N
		1000 µg/mL	EtOH	ALR-015S-ET-10X
Benzyl cyanide	140-29-4	100 mg	Neat	ALR-029N
		1000 µg/mL	EtOH	ALR-029S-ET-10X
Benzyl paraben	94-18-8	100 mg	Neat	ALR-083N
		100 µg/mL	MeOH	ALR-083S
Benzyl salicylate	118-58-1	100 mg	Neat	ALR-009N
		1000 µg/mL	AcCN	ALR-009S-CN-10X
Bithionol	97-18-7	100 mg	Neat	ALR-084N
		100 µg/mL	MeOH	ALR-084S
5-Bromo-5-nitro-1,3-dioxane (Bronidox L) (BND)	30007-47-7	100 mg	Neat	ALR-074N
		100 µg/mL	MeOH	ALR-074S
2-Bromo-2-nitropropane-1,3-diol (Bronopol)	52-51-7	100 mg	Neat	ALR-067N
2-(4-tert-Butylbenzyl)propionaldehyde (technical grade)	80-54-6	1000 µg/mL	AcCN	ALR-017S-CN-10X
		100 µg/mL	MeOH	ALR-087S
Butylated hydroxyanisole (BHA)	25013-16-5	100 mg	Neat	ALR-087N
		100 µg/mL	MeOH	ALR-087S
Butylated hydroxytoluene (BHT & 2,6-DBPC)	128-37-0	100 mg	Neat	ALR-088N
		100 µg/mL	MeOH	ALR-088S
Butylene glycol	107-88-0	100 mg	Neat	ALR-089N
		100 µg/mL	MeOH	ALR-089S
Butyl-methoxydibenzoylmethane (B-MDM) Sunblock, Parsol1789	70356-09-1	100 µg/mL	MeOH	ALR-086S
Butyl paraben	94-26-8	100 mg	Neat	ALR-085N
		100 µg/mL	MeOH	ALR-085S
p-tert-Butylphenol	98-54-4	100 mg	Neat	ALR-030N
		1000 µg/mL	EtOH	ALR-030S-ET-10X
Cetone Alpha (technical grade)	127-51-5	1000 µg/mL	AcCN	ALR-024S-CN-10X
Chloroacetamide	79-07-2	100 mg	Neat	ALR-090N
		100 µg/mL	MeOH	ALR-090S
Chloroform	67-66-3	100 mg	Neat	ALR-091N
		100 µg/mL	MeOH	ALR-091S
2-Chloropyridine	109-09-1	100 mg	Neat	ALR-068N
		100 µg/mL	MeOH	ALR-068S
Chromium	7440-47-3	1000 µg/mL	2-5% HNO <sub>3</sub>	ALR-MET-02S
Cinnamal	104-55-2	100 mg	Neat	ALR-010N
		1000 µg/mL	AcCN	ALR-010S-CN-10X
Cinnamyl alcohol	104-54-1	100 mg	Neat	ALR-003N
		1000 µg/mL	EtOH	ALR-003S-ET-10X
Citral	5392-40-5	100 mg	Neat	ALR-004N
		1000 µg/mL	AcCN	ALR-004S-CN-10X
b-Citronellol	106-22-9	100 mg	Neat	ALR-020N
		1000 µg/mL	EtOH	ALR-020S-ET-10X
Coal Tar (black)	8007-45-2	100 mg	Neat	ALR-094N
		100 µg/mL	Toluene	ALR-094S-T
Cobalt	7440-48-4	1000 µg/mL	2-5% HNO <sub>3</sub>	ALR-MET-03S
Coumarin	91-64-5	100 mg	Neat	ALR-011N
		1000 µg/mL	AcCN	ALR-011S-CN-10X
2,4-Diaminoanisole sulfate hydrate	123333-56-2	100 µg/mL	Pyridine	ALR-070S-R1
2,4-Diaminophenol	137-09-7	100 mg	Neat	ALR-063N
		100 µg/mL	MeOH	ALR-063S

# Allergens

## Individual Allergens

Compound	CAS No.	Conc.	Matrix	Cat. No.
Diamyl phthalate	131-18-0	100 mg	Neat	ALR-098N
		100 µg/mL	MeOH	ALR-098S
Diazolidinyl urea	78491-02-8	100 mg	Neat	ALR-106N
		100 µg/mL	MeOH	ALR-106S
Dibromsalon (Halogenated salicylanilides)	87-12-7	100 mg	Neat	ALR-107N
		100 µg/mL	MeOH	ALR-107S
Dicyclohexyl phthalate	84-61-7	100 mg	Neat	ALR-099N
		100 µg/mL	MeOH	ALR-099S
Diethanolamine (DEA)	111-42-2	100 mg	Neat	ALR-109N
		100 µg/mL	MeOH	ALR-109S
Di(2-ethyl hexyl) phthalate (DEHP)	117-81-7	100 mg	Neat	ALR-097N
		100 µg/mL	MeOH	ALR-097S
Diethyl maleate	141-05-9	100 mg	Neat	ALR-033N
		1000 µg/mL	EtOH	ALR-033S-ET-10X
		100 µg/mL	MeOH	ALR-110S
Diethyl phthalate	84-66-2	100 mg	Neat	ALR-110N
		100 µg/mL	MeOH	ALR-110S
Di-hexyl phthalate	84-75-3	100 mg	Neat	ALR-100N
		100 µg/mL	MeOH	ALR-100S
Dihydrocoumarin	119-84-6	100 mg	Neat	ALR-034N
		1000 µg/mL	Acetone	ALR-034S-A-10X
Diisodecyl phthalate	26761-40-0	100 mg	Neat	ALR-101N
		100 µg/mL	MeOH	ALR-101S
Diisononyl phthalate	68515-48-0	100 mg	Neat	ALR-102N
		100 µg/mL	MeOH	ALR-102S
Diisooctyl phthalate	27554-26-3	100 mg	Neat	ALR-103N
		100 µg/mL	MeOH	ALR-103S
Dimethyl citraconate	617-54-9	100 mg	Neat	ALR-038N
		1000 µg/mL	EtOH	ALR-038S-ET-10X
		100 µg/mL	MeOH	ALR-111S
Dimethyl phthalate (DMP)	131-11-3	100 mg	Neat	ALR-111N
		100 µg/mL	MeOH	ALR-111S
6,10-Dimethyl-3,5,9-undecatrien-2-one (Pseudoionone)	141-10-6	100 mg	Neat	ALR-040N
		1000 µg/mL	Acetone	ALR-040S-A-10X
		100 µg/mL	MeOH	ALR-104S
Di-n-butyl phthalate (DBP)	84-74-2	100 mg	Neat	ALR-104N
		100 µg/mL	MeOH	ALR-104S
Di-n-octyl phthalate	117-84-0	100 mg	Neat	ALR-105N
		100 µg/mL	MeOH	ALR-105S
1,4-Dioxane	123-91-1	100 mg	Neat	ALR-062N
		100 µg/mL	MeOH	ALR-062S
Diphenylamine	122-39-4	100 mg	Neat	ALR-041N
		1000 µg/mL	EtOH	ALR-041S-ET-10X
2-Ethoxyethanol	110-80-5	100 mg	Neat	ALR-064N
		100 µg/mL	MeOH	ALR-064S
2-Ethoxyethanol acetate	111-15-9	100 mg	Neat	ALR-065N
		100 µg/mL	MeOH	ALR-065S
Ethyl acrylate	140-88-5	100 mg	Neat	ALR-042N
		1000 µg/mL	EtOH	ALR-042S-ET-10X
Ethyl paraben	120-47-8	100 mg	Neat	ALR-113N
		100 µg/mL	MeOH	ALR-113S
Ethylene diamine dihydrochloride	333-18-6	100 mg	Neat	ALR-114N
		100 µg/mL	MeOH	ALR-114S
2-Ethylhexyl salicylate	118-60-5	100 mg	Neat	ALR-174N
		100 µg/mL	AcCN	ALR-114S-CN
Eugenol	97-53-0	100 mg	Neat	ALR-005N
		1000 µg/mL	EtOH	ALR-005S-ET-10X
Farnesol	4602-84-0	100 mg	Neat	ALR-016N
		1000 µg/mL	EtOH	ALR-016S-ET-10X
		100 µg/mL	Water	ALR-115S-W
Formaldehyde	50-00-0	100 µg/mL	Water	ALR-115S-W
Freon #11 Trichlorofluoromethane	75-69-4	200 µg/mL	MeOH	ALR-CFC-013S-2X
Freon #12 Dichlorodifluoromethane	75-71-8	200 µg/mL	MeOH	ALR-CFC-008S-2X
Freon #13 Chlorotrifluoromethane	75-72-9	200 µg/mL	MeOH	ALR-CFC-007S-2X
Freon #13b1 Bromotrifluoromethane	75-63-8	200 µg/mL	MeOH	ALR-CFC-001S-2X
Freon #21 Dichlorofluoromethane	75-43-4	200 µg/mL	MeOH	ALR-CFC-009S-2X
Freon #22 Chlorodifluoromethane	75-45-6	200 µg/mL	MeOH	ALR-CFC-003S-2X
Freon #23 Trifluoromethane	75-46-7	200 µg/mL	MeOH	ALR-CFC-015S-2X
Freon #40 Chloromethane	74-87-3	200 µg/mL	MeOH	ALR-CFC-005S-2X
Freon #113 1,1,2-Trichloro-1,1,2,2-trifluoroethane	76-13-1	200 µg/mL	MeOH	ALR-CFC-014S-2X
Freon #114 1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	200 µg/mL	MeOH	ALR-CFC-010S-2X
Freon #115 Chloropentafluoroethane	76-15-3	200 µg/mL	MeOH	ALR-CFC-006S-2X
Freon #134a Tetrafluoroethane	811-97-2	200 µg/mL	MeOH	ALR-CFC-012S-2X
Freon #142b 1-Chloro-1,1-difluoroethane	75-68-3	200 µg/mL	MeOH	ALR-CFC-002S-2X
Freon #152a 1,1-Difluoroethane	75-37-6	200 µg/mL	MeOH	ALR-CFC-011S-2X
Freon #160 Chloroethane	75-00-3	200 µg/mL	MeOH	ALR-CFC-004S-2X
Geraniol	106-24-1	100 mg	Neat	ALR-012N
		1000 µg/mL	EtOH	ALR-012S-ET-10X
trans-2-Heptenal	18829-55-5	100 mg	Neat	ALR-044N
		1000 µg/mL	AcCN	ALR-044S-CN-10X

### Cat. No.'s Units

N	Neats at 100 mg
S	Solutions in 1 mL

# Allergens

## Individual Allergens

Compound	CAS No.	Conc.	Matrix	Cat. No.
Heptyl paraben	1085-12-7	100 mg	Neat	ALR-117N
		100 µg/mL	MeOH	ALR-117S
trans-2-Hexenal diethyl acetal	67746-30-9	100 mg	Neat	ALR-045N
		1000 µg/mL	EtOH	ALR-045S-ET-10X
trans-2-Hexenal dimethyl acetal	18318-83-7	100 mg	Neat	ALR-046N
		1000 µg/mL	MeOH	ALR-046S-10X
Hexachlorophene (HCP)	70-30-4	100 mg	Neat	ALR-118N
		100 µg/mL	MeOH	ALR-118S
Hexyl cinnamaldehyde	101-86-0	1000 µg/mL	EtOH	ALR-021S-ET-10X
Homosalate (HMS)	118-56-9	100 µg/mL	MeOH	ALR-119S
Dihydroabietyl alcohol	26266-77-3	100 mg	Neat	ALR-047N
		1000 µg/mL	EtOH	ALR-047S-ET-10X
Hydroquinone monoethyl ether (4-Ethoxyphenol)	622-62-8	100 mg	Neat	ALR-048N
		1000 µg/mL	EtOH	ALR-048S-ET-10X
p-Hydroxyanisole	150-76-5	100 mg	Neat	ALR-145N
		100 µg/mL	MeOH	ALR-145S
4-Hydroxybenzoic acid (Paraben)	99-96-7	100 mg	Neat	ALR-069N
		100 µg/mL	AcCN	ALR-069S-CN
Hydroxy-citronellal	107-75-5	100 mg	Neat	ALR-006N
		1000 µg/mL	AcCN	ALR-006S-CN-10X
tris(Hydroxymethyl)nitromethane (Tris Nitro)	126-11-4	100 mg	Neat	ALR-169N
		100 µg/mL	MeOH	ALR-169S
Hydroxymethylpentylcyclohexenecarboxaldehyde	31906-04-4	100 mg	Neat	ALR-013N
		1000 µg/mL	AcCN	ALR-013S-CN-10X
Imidazolidinyl urea	39236-46-9	100 mg	Neat	ALR-120N
		100 µg/mL	MeOH	ALR-120S
a-Ionone	127-41-3	100 mg	Neat	ALR-171N
		100 µg/mL	MeOH	ALR-171S
b-Ionone	79-77-6	100 mg	Neat	ALR-172N
		100 µg/mL	MeOH	ALR-172S
Isobutyl paraben	4247-02-3	100 mg	Neat	ALR-121N
		100 µg/mL	MeOH	ALR-121S
Isoeugenol	97-54-1	100 mg	Neat	ALR-007N
		1000 µg/mL	EtOH	ALR-007S-ET-10X
Isopropyl paraben	4191-73-5	100 mg	Neat	ALR-122N
		100 µg/mL	MeOH	ALR-122S
Lanolin, anhydrous	8006-54-0	100 mg	Neat	ALR-123N
		100 µg/mL	MeOH	ALR-123S-A
Lead	7439-92-1	1000 µg/mL	2-5% HNO <sub>3</sub>	ALR-MET-04S
d-Limonene	5989-27-5	100 mg	Neat	ALR-022N
		1000 µg/mL	EtOH	ALR-022S-ET-10X
Linalool	78-70-6	100 mg	Neat	ALR-018N
		1000 µg/mL	EtOH	ALR-018S-ET-10X
Mercury	7439-97-6	1000 µg/mL	2-5% HNO <sub>3</sub>	ALR-MET-05S
Metabromsalon	2577-72-2	100 mg	Neat	ALR-128N
		100 µg/mL	MeOH	ALR-128S
7-Methoxycoumarin	531-59-9	100 mg	Neat	ALR-050N
		1000 µg/mL	AcCN	ALR-050S-CN-10X
4-(p-Methoxyphenyl)-3-butene-2-one	943-88-4	1000 µg/mL	AcCN	ALR-051S-CN-10X
4-Methoxy-m-phenylenediamine-sulfate hydrate	6219-67-6	100 mg	Neat	ALR-072N
		100 µg/mL	MeOH	ALR-072S
1-(p-Methoxyphenyl)-1-penten-3-one	104-27-8	100 mg	Neat	ALR-052N
		1000 µg/mL	AcCN	ALR-052S-CN-10X
4-Methyl-benzylidene camphor (4-MBC)	36861-47-9	100 mg	Neat	ALR-073N
		100 µg/mL	MeOH	ALR-073S
6-Methylcoumarin (6-MC)	92-48-8	100 mg	Neat	ALR-075N
		100 µg/mL	MeOH	ALR-075S
7-Methylcoumarin	2445-83-2	100 mg	Neat	ALR-054N
		1000 µg/mL	AcCN	ALR-054S-CN-10X
Methyl heptyne carbonate	111-12-6	100 mg	Neat	ALR-023N
		1000 µg/mL	EtOH	ALR-023S-ET-10X
5-Methyl-2,3-hexanedione (Acetyl isovaleryl)	13706-86-0	100 mg	Neat	ALR-055N
		1000 µg/mL	AcCN	ALR-055S-CN-10X
Methyl methacrylate monomer	80-62-6	100 mg	Neat	ALR-129N
		100 µg/mL	MeOH	ALR-129S
Methyl paraben	99-76-3	100 mg	Neat	ALR-130N
		100 µg/mL	MeOH	ALR-130S
Methyl trans-2-butenate	623-43-8	100 mg	Neat	ALR-053N
		1000 µg/mL	MeOH	ALR-053S-10X
Methyldibromoglutaronitrile	35691-65-7	100 mg	Neat	ALR-132N
		100 µg/mL	MeOH	ALR-132S
Methylene chloride	75-09-2	100 mg	Neat	ALR-133N
		100 µg/mL	MeOH	ALR-133S
Methyleugenol	93-15-2	100 mg	Neat	ALR-061N
		1000 µg/mL	EtOH	ALR-061S-ET-10X

Cat. No.'s Units	
N	Neats at 100 mg
S	Solutions in 1 mL

# Allergens

## Individual Allergens

### Cat. No.'s Units

N	Neats at 100 mg
S	Solutions in 1 mL

Compound	CAS No.	Conc.	Matrix	Cat. No.
Monobenzyl phthalate (mBzP)	2528-16-7	100 mg	Neat	ALR-134N
		100 µg/mL	AcCN	ALR-134S-CN
Monobutyl phthalate (mBP)	131-70-4	100 mg	Neat	ALR-135N
		100 µg/mL	AcCN	ALR-135S-CN
Monoethanolamine (MEA) (2-Aminoethanol)	141-43-5	100 mg	Neat	ALR-136N
		100 µg/mL	MeOH	ALR-136S
Monoethyl phthalate (mEP)	2306-33-4	100 mg	Neat	ALR-137N
		100 µg/mL	AcCN	ALR-137S-CN
Monoethylhexyl phthalate (mEHP)	4376-20-9	100 mg	Neat	ALR-138N
		100 µg/mL	AcCN	ALR-138S-CN
Monomethyl phthalate	4376-18-5	100 mg	Neat	ALR-139N
		100 µg/mL	AcCN	ALR-139S-CN
Musk ambrette	83-66-9	1000 µg/mL	AcCN	ALR-056S-CN-10X
Nickel	7440-02-0	1000 µg/mL	2-5% HNO <sub>3</sub>	ALR-MET-06S
N-Phenyl-p-phenylenediamine	101-54-2	100 mg	Neat	ALR-140N
		100 µg/mL	MeOH	ALR-140S
Oak Moss extract	90028-68-5	100 mg	Neat	ALR-026N
		1000 µg/mL	EtOH	ALR-026S-ET-10X
Octyl-dimethyl-PABA (OD-PABA)(Padimate O)	21245-02-3	100 mg	Neat	ALR-146N
		100 µg/mL	MeOH	ALR-146S
Octyl-methoxycinnamate (OMC)	5466-77-3	100 mg	Neat	ALR-144N
		100 µg/mL	MeOH	ALR-144S
4-Phenyl-3-buten-2-one	122-57-6	100 mg	Neat	ALR-058N
		1000 µg/mL	AcCN	ALR-058S-CN-10X
meta-Phenylenediamine (MPD)	108-45-2	100 mg	Neat	ALR-127N
		100 µg/mL	MeOH	ALR-127S
para-Phenylenediamine (PPD)	106-50-3	100 mg	Neat	ALR-147N
		100 µg/mL	MeOH	ALR-147S
Polyethylene glycol (PEG), appr. Molecular weight 200	25322-68-3	100 mg	Neat	ALR-149N-MW200
		100 µg/mL	MeOH	ALR-149S-MW200
Polyethylene glycol (PEG), appr. Molecular weight 400	25322-68-3	100 mg	Neat	ALR-149N-MW400
		100 µg/mL	MeOH	ALR-149S-MW400
Polyethylene glycol (PEG), appr. Molecular weight 600	25322-68-3	100 mg	Neat	ALR-149N-MW600
		100 µg/mL	MeOH	ALR-149S-MW600
Polyethylene glycol (PEG), appr. Molecular weight 1500	25322-68-3	100 mg	Neat	ALR-149N-MW1500
		100 µg/mL	MeOH	ALR-149S-MW1500
Polyethylene glycol (PEG), appr. Molecular weight 4000	25322-68-3	100 mg	Neat	ALR-149N-MW4000
		100 µg/mL	MeOH	ALR-149S-MW4000
Polyvinylpyrrolidone PVP/PA Copolymer	9003-39-8	100 µg/mL	MeOH	ALR-150S
Potassium dichromate	7778-50-9	1000 µg/mL	Water	ALR-MET-07S
Potassium sorbate	24634-61-5	100 mg	Neat	ALR-152N
		100 µg/mL	MeOH	ALR-152S
Propyl paraben	94-13-3	100 mg	Neat	ALR-153N
		100 µg/mL	MeOH	ALR-153S
Propylene glycol (PG)	57-55-6	100 µg/mL	MeOH	ALR-154S
Protocatechuic acid	99-50-3	100 mg	Neat	ALR-155N
		100 µg/mL	AcCN	ALR-155S-CN
Pyrocatechol	120-80-9	100 mg	Neat	ALR-156N
		100 µg/mL	MeOH	ALR-156S
Quaternium-15	51229-78-8	100 mg	Neat	ALR-157N
		100 µg/mL	MeOH	ALR-157S
Resorcinol	108-46-3	100 mg	Neat	ALR-158N
		100 µg/mL	MeOH	ALR-158S
Salicylic acid	69-72-7	100 mg	Neat	ALR-173N
		100 µg/mL	Water	ALR-173S-W
Sodium hydroxide	1310-73-2	100 mg	Neat	ALR-159N
		100 µg/mL	MeOH	ALR-159S
Sodium nitrite	7632-00-0	100 mg	Neat	ALR-160N
		100 µg/mL	Water	ALR-160S-W
Talc	14807-96-6	100 mg	Neat	ALR-161N
Tetrachlorosalicylanilide	1154-59-2	100 mg	Neat	ALR-162N
		100 µg/mL	MeOH	ALR-162S
Thimerosal	54-64-8	100 mg	Neat	ALR-163N
		100 µg/mL	MeOH	ALR-163S
Thiuram (Thiram) (Tetramethylthiourea disulfide)	137-26-8	100 mg	Neat	ALR-164N
		100 µg/mL	MeOH	ALR-164S
Tree Moss extract	90028-67-4	100 mg	Neat	ALR-025N
		1000 µg/mL	EtOH	ALR-025S-ET-10X
Tribomsalan	87-10-5	100 mg	Neat	ALR-167N
		100 µg/mL	MeOH	ALR-167S
Triethanolamine (TEA)	102-71-6	100 mg	Neat	ALR-168N
		100 µg/mL	MeOH	ALR-168S
Verbena oil (Lippia citriodora Kunth)	8024-12-2	100 mg	Neat	ALR-060N
		1000 µg/mL	EtOH	ALR-060S-ET-10X
Vinyl chloride	75-01-4	100 µg/mL	MeOH	ALR-170S
Zirconium	7440-67-7	1000 µg/mL	2-5% HNO <sub>3</sub>	ALR-MET-08S

# EU Directive List

## EU Directive 76/768/EEC

### EU Directive List of 26 Regulated Contact Allergens:

Set of all 26 EU Allergens (in Solution) ALR-EU26-R1-SET  
Each at 1000 µg/mL Conc. (1 mL) 26 x 1 mL

Compound	CAS No.	Cat. No.	1 mL
Amyl cinnamal	122-40-7	ALR-001S-CN-10X	
Amylcinnamyl alcohol	101-85-9	ALR-008S-ET-10X	
Anisyl alcohol	105-13-5	ALR-014S-ET-10X	
Benzyl alcohol	100-51-6	ALR-002S-ET-10X	
Benzyl benzoate	120-51-4	ALR-019S-ET-10X	
Benzyl cinnamate	103-41-3	ALR-015S-ET-10X	
Benzyl salicylate	118-58-1	ALR-009S-CN-10X	
2-(4-tert-Butylbenzyl)propionaldehyde (technical grade)	80-54-6	ALR-017S-CN-10X	
Cetone Alpha (technical grade)	127-51-5	ALR-024S-CN-10X	
Cinnamal	104-55-2	ALR-010S-CN-10X	
Cinnamyl alcohol	104-54-1	ALR-003S-ET-10X	
Citral	5392-40-5	ALR-004S-CN-10X	
b-Citronellol	106-22-9	ALR-020S-ET-10X	
Coumarin	91-64-5	ALR-011S-CN-10X	
Eugenol	97-53-0	ALR-005S-ET-10X	
Farnesol	4602-84-0	ALR-016S-ET-10X	
Geraniol	106-24-1	ALR-012S-ET-10X	
Hexyl cinnamaldehyde	101-86-0	ALR-021S-ET-10X	
Hydroxy-citronellal	107-75-5	ALR-006S-CN-10X	
Hydroxymethylpentylcyclohexene carboxaldehyde	31906-04-4	ALR-013S-CN-10X	
Isoeugenol	97-54-1	ALR-007S-ET-10X	
d-Limonene	5989-27-5	ALR-022S-ET-10X	
Linalool	78-70-6	ALR-018S-ET-10X	
Methyl heptyne carbonate	111-12-6	ALR-023S-ET-10X	
Oak Moss extract	90028-68-5	ALR-026S-ET-10X	
Tree Moss extract	90028-67-4	ALR-025S-ET-10X	

### EU Directive List of substances that may be banned:

Set of 25 Allergens (in Solution) ALR-EU36-R1-SET  
Neats at 100 mg, Solutions are in 1000 µg/mL Conc. (1 mL) 25 x 1 mL

Compound	CAS No.	Cat. No.	1 mL
Alanroot (Inula helenium)	97676-35-2	ALR-027S-ET-10X	
Allylthiocyanate	57-06-7	ALR-028S-ET-10X	
Benzyl cyanide	140-29-4	ALR-029S-ET-10X	
p-tert-Butylphenol	98-54-4	ALR-030S-ET-10X	
Diethyl maleate	141-05-9	ALR-033S-ET-10X	
Dihydrocoumarin	119-84-6	ALR-034S-A-10X	
Dimethyl citraconate	617-54-9	ALR-038S-ET-10X	
6,10-Dimethyl-3,5,9-undecatrien-2-one (Pseudoionone)	141-10-6	ALR-040S-A-10X	
Diphenylamine	122-39-4	ALR-041S-ET-10X	
Ethyl acrylate	140-88-5	ALR-042S-ET-10X	
trans-2-Heptenal	18829-55-5	ALR-044S-CN-10X	
trans-2-Hexenal diethyl acetal	67746-30-9	ALR-045S-ET-10X	
trans-2-Hexenal dimethyl acetal	18318-83-7	ALR-046S-10X	
Dihydroabietyl alcohol	26266-77-3	ALR-047S-ET-10X	
Hydroquinone monoethyl ether (4-Ethoxyphenol)	622-62-8	ALR-048S-ET-10X	
7-Methoxycoumarin	531-59-9	ALR-050S-CN-10X	
4-(p-Methoxyphenyl)-3-butene-2-one	943-88-4	ALR-051S-CN-10X	
1-(p-Methoxyphenyl)-1-penten-3-one	104-27-8	ALR-052S-CN-10X	
7-Methylcoumarin	2445-83-2	ALR-054S-CN-10X	
5-Methyl-2,3-hexanedione (Acetyl isovaleryl)	13706-86-0	ALR-055S-CN-10X	
Methyl trans-2-butenoate	623-43-8	ALR-053S-10X	
Methyleugenol	95-15-2	ALR-061S-ET-10X	
Musk ambrette (solution only)	83-66-9	ALR-056S-CN-10X	
4-Phenyl-3-buten-2-one	122-57-6	ALR-058S-CN-10X	
Verbena oil (Lippia citriodora Kunth)	8024-12-2	ALR-060S-ET-10X	

### Technical Mixtures

When a compound has a purity identified as "Technical" or "Tech Mixture" it means that the standard is not comprised of just one main compound. These are mixtures of multiple chemicals that make up a particular product and every chemical in the mix are components that define the product. The analysis considers all compounds in the product. Aroclors, flame retardants, PBDE technical grade, halowaxes, and some allergens, plastic additives, and dyes are classified as "Technical Mixtures".

### Key to Catalog Numbers

N	Neat, 100 mg
S	Solution in Methanol
S-A	Solution in Acetone
S-CN	Solution in Acetonitrile
S-ET	Solution in Ethanol
S-T	Solution in Toluene
S-W	Solution in Water

AllergenCheck™



# Allergens by Type

## Sun Block

**Set of 6 Sun Block Solutions** ALR-SUN-SET 6 x 1 mL  
Each at 100 µg/mL Conc. (1 mL)

Compound	CAS No.	Cat. No.	1 mL
Benzophenone-3 (Bp-3)	131-57-7	ALR-081S-CN	
Butyl-methoxydibenzoylmethane(B-MDM) Sunblock, Parsol 1789	70356-09-1	ALR-086S	
Homosalate (HMS)	118-56-9	ALR-119S	
4-Methyl-benzylidene camphor (4-MBC)	36861-47-9	ALR-073S	
Octyl-dimethyl-PABA (OD-PABA) (Padimate O)	21245-02-3	ALR-146S	
Octyl-methoxycinnamate (OMC)	5466-77-3	ALR-144S	

## Parabens

**Set of 11 Paraben Solutions** ALR-PAR-SET 11 x 1 mL  
Each at 100 µg/mL Conc. (1 mL)

Compound	CAS No.	Cat. No.	1 mL
Benzyl paraben	94-18-8	ALR-083S	
Butyl paraben	94-26-8	ALR-085S	
Ethyl paraben	120-47-8	ALR-113S	
Heptyl paraben	1085-12-7	ALR-117S	
4-Hydroxybenzoic acid (Paraben)	99-96-7	ALR-069S-CN	
Isobutyl paraben	4247-02-3	ALR-121S	
Isopropyl paraben	4191-73-5	ALR-122S	
Methyl paraben	99-76-3	ALR-130S	
Potassium sorbate	24634-61-5	ALR-152S	
Propyl paraben	94-13-3	ALR-153S	
Protocatechuic acid	99-50-3	ALR-155S-CN	

## Chlorofluorocarbon Propellants (CFCs)

**Set of 15 ALR-CFCs Solutions** ALR-CFC-SET 15 x 1 mL  
Each at 200 µg/mL Conc. (1 mL)

Freon	Compound	CAS No.	Cat. No.	1 mL
Freon #11	Trichlorofluoromethane	75-69-4	ALR-CFC-013S-2X	
Freon #12	Dichlorodifluoromethane	75-71-8	ALR-CFC-008S-2X	
Freon #13	Chlorotrifluoromethane	75-72-9	ALR-CFC-007S-2X	
Freon #13b1	Bromotrifluoromethane	75-63-8	ALR-CFC-001S-2X	
Freon #21	Dichlorofluoromethane	75-43-4	ALR-CFC-009S-2X	
Freon #22	Chlorodifluoromethane	75-45-6	ALR-CFC-003S-2X	
Freon #23	Trifluoromethane	75-46-7	ALR-CFC-015S-2X	
Freon #40	Chloromethane	74-87-3	ALR-CFC-005S-2X	
Freon #113	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ALR-CFC-014S-2X	
Freon #114	1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	ALR-CFC-010S-2X	
Freon #115	Chloropentafluoroethane	76-15-3	ALR-CFC-006S-2X	
Freon #134a	Tetrafluoroethane	811-97-2	ALR-CFC-012S-2X	
Freon #142b	1-Chloro-1,1-difluoroethane	75-68-3	ALR-CFC-002S-2X	
Freon #152a	1,1-Difluoroethane	75-37-6	ALR-CFC-011S-2X	
Freon #160	Chloroethane	75-00-3	ALR-CFC-004S-2X	

## Metals

**Set of 8 Metals Solutions** ALR-MET-SET 8 x 100 mL  
Each at 1000 µg/mL 2-5% HNO<sub>3</sub> except † in Water (100 mL Volume)

Compound	CAS No.	Cat. No.	100 mL
Arsenic	7440-38-2	ALR-MET-01S	
Chromium	7440-47-3	ALR-MET-02S	
Cobalt	7440-48-4	ALR-MET-03S	
Lead	7439-92-1	ALR-MET-04S	
Mercury	7439-97-6	ALR-MET-05S	
Nickel	7440-02-0	ALR-MET-06S	
Potassium dichromate	7778-50-9	ALR-MET-07S †	
Zirconium	7440-67-7	ALR-MET-08S	

† in Water

## Phthalates

**Set of 17 Phthalate Solutions** ALR-PHT-SET 17 x 1 mL  
Each at 100 µg/mL Conc. (1 mL)

Compound	CAS No.	Cat. No.	1 mL
Benzyl butyl phthalate	85-68-7	ALR-082S	
Diamyl phthalate	131-18-0	ALR-098S	
Dicyclohexyl phthalate	84-61-7	ALR-099S	
Di(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ALR-097S	
Diethyl phthalate	84-66-2	ALR-110S	
Di-hexyl phthalate	84-75-3	ALR-100S	
Diisodecyl phthalate	26761-40-0	ALR-101S	
Diisononyl phthalate	68515-48-0	ALR-102S	
Diisooctyl phthalate	27554-26-3	ALR-103S	
Dimethyl phthalate (DMP)	131-11-3	ALR-111S	
Di-n-butyl phthalate (DBP)	84-74-2	ALR-104S	
Di-n-octyl phthalate	117-84-0	ALR-105S	
Monobenzyl phthalate (mBzP)	2528-16-7	ALR-134S-CN	
Monobutyl phthalate (mBP)	131-70-4	ALR-135S-CN	
Monoethyl phthalate (mEP)	2306-33-4	ALR-137S-CN	
Monoethylhexyl phthalate (mEHP)	4376-20-9	ALR-138S-CN	
Monomethyl phthalate	4376-18-5	ALR-139S-CN	

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# AccuStandard®

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