

Dr. Duke's Phytochemical and Ethnobotanical Databases**List of Chemicals for FLavor**

Chemical	Dosage
(+)-BORNYL-ISOVALERATE	FEMA <1-2
(+)-CAMPHOR	FEMA 2-25
(4,1)-HEPTANOLIDE	FEMA 2-40
1,8-CINEOLE	FEMA 1-200
1-DECANOL	FEMA <1
1-HEPTANOL	FEMA 1-5
2,6-DIMETHYL-OCTANAL	FEMA
2-AMYL-5-KETO-1,4-DIOXAN	FEMA <1-5 ppm
2-BUTYL-5-KETO-1,4-DIOXAN	FEMA 2-8
2-BUTYL-6-KETO-1,4-DIOXAN	FEMA 2-8
2-ETHYL-2-HEPTENAL	FEMA 0.03-2
2-ETHYL-BUTYL-ACETATE	FEMA 5-8
2-ETHYL-BUTYRIC-ACID	FEMA 3-35
2-ETHYL-HEPTOATE	FEMA 30-500
2-FURYL-2-PROPANONE	FEMA 2-20
2-HEXYL-4-ACETOXY-TETRAHYDROFURAN	FEMA <1-1
2-METHOXY-4-VINYL-PHENOL	FEMA 0.2-10
3-HEPTANOL	FEMA
3-OCTANOL	FEMA
3-PHENYL-PROPYL-ACETATE	FEMA 0.5-10
4,4-DIBUTYL-GAMMA-BUTYROLACTONE	FEMA 3-15
4-TERPINEOL	FEMA 20-100
ACETYL-ISOBUTYRYL	FEMA 1-10
ACETYL-VALEDRYL	FEMA 1-10
ALLYL-ISOVALERATE	FEMA 1-50 ppm
ALLYL-TIGLATE	FEMA <1 ppm
ALLYL-UNDECYLENATE	FEMA 1-2 ppm

Chemical	Dosage
ALPHA-ETHYL-BENZYL-BUTYRATE	FEMA<1-1
ALPHA-ETHYL-FURFUR-ACROLEIN	FEMA 0.5-6
ALPHA-FURFURYL-MERCAPTAN	FEMA 0.1-2
ALPHA-HEXYLIDENE-CYCLOPENTANONE	FEMA <1
ALPHA-METHYL-BUTYRIC-ACID	FEMA 0.5-5
ALPHA-N-BUTYL-CINNAMIC-ALDEHYDE	FEMA
ALPHA-PHELLANDRENE	FEMA 10-130
ALPHA-PINENE	FEMA 15-150
ALPHA-SANTALOL	FEMA 1-10
ALPHA-TERPINENE	FEMA 1-40
ALPHA-TERPINEOL	FEMA 5-40
AMBRETTOLIDE	FEMA 0.01-0.7 ppm
AMYL-ALCOHOL	FEMA 35-3,500 ppm
AMYL-BENZOATE	FEMA 8-200
AMYL-BUTYRATE	FEMA 70-800
AMYL-CAPROATE	FEMA 50-100
AMYL-CAPRYLATE	FEMA 1-7
AMYL-CINNAMIC-ALCOHOL	FEMA <1
AMYL-CINNAMIC-ALDEHYDE	FEMA <1-15
AMYL-CINNAMIC-ALDEHYDE-DIMETHYL-ACETAL	FEMA <1
AMYL-CINNAMYL-ACETATE	FEMA
AMYL-CINNAMYL-FORMATE	FEMA
AMYL-CINNAMYL-ISOVALERATE	FEMA
AMYL-FORMATE	FEMA 30-170 ppm
AMYL-FUROATE	FEMA 1-10 ppm
AMYL-HEPTYLATE	FEMA 8-50 ppm
AMYL-VINYLCARBINOL	FEMA 0.2-6 ppm

Chemical	Dosage
ANISOLE	FEMA
ANISYL-ACETONE	FEMA 10-100
ANISYL-ALCOHOL	FEMA 10-20
ANISYL-BUTYRATE	FEMA 10-14
ANISYL-FORMATE	FEMA 12-15
ANISYL-PHENYLACETATE	FEMA 5-7
ANISYL-PROPIONATE	FEMA 10-20
ANISYLACETATE	FEMA 1-30
BENZALDEHYDE	FEMA 150-800
BENZALDEHYDE-DIMETHYLACETAL	FEMA 60
BENZALDEHYDE-GLYCERYL-ACETAL	FEMA 100-800
BENZALDEHYDE-PROPYLENEGLYCOL-ACETAL	FEMA
BENZOIC-ACID	FEMA 250
BENZOIN	FEMA 5
BENZOPHENONE	FEMA 1-2
BENZOYL-EUGENOL	FEMA 10
BENZYL-2,3-DIMETHYL-CROTONATE	FEMA <1
BENZYL-ACETATE	FEMA 35-800
BENZYL-ACETOACETATE	FEMA 50
BENZYL-ALCOHOL	Fema 200-1,200
BENZYL-BENZOATE	FEMA 40-300
BENZYL-BUTYRATE	FEMA 10-350
BENZYL-CINNAMATE	FEMA 1-125
BENZYL-DIPROPYLKETONE	FEMA 10-12
BENZYL-FORMATE	FEMA 12-35
BENZYL-ISOBUTYRATE	FEMA 25
BENZYL-ISOVALERATE	FEMA 50-200

Chemical	Dosage
BENZYL-MERCAPTAN	FEMA <1
BENZYL-PHENYLACETATE	FEMA
BENZYL-PROPIONATE	FEMA 40-150
BENZYL-SALICYLATE	FEMA <1
BENZYLIDENE-ACETONE	FEMA 0.2-0.5
BETA-PHENYLETHANOL	FEMA 0.1-20
BETA-PINENE	FEMA 15-600
BETA-SANTALOL	FEMA 1-10
BORNEOL	FEMA<1
BORNYL-ACETATE	FEMA 70-80
BORNYL-FORMATE	FEMA <1
BORNYL-VALERATE	FEMA <1
BUTYL-2-DECENOATE	FEMA 20-2,000
BUTYL-ACETOACETATE	FEMA 25
BUTYL-BENZYL-ETHER	FEMA 1-8
BUTYL-ETHYLMALONATE	FEMA 5-50
BUTYL-ISOVALERATE	FEMA 5-50
BUTYL-STEARATE	FEMA 35-350
CADINENE	FEMA 400-4,000
CAFFEINE	FEMA 125
CAMPHENE	FEMA 15-175
CAPSAICIN	0.009-10
CARVACROL	FEMA 10-125
CARVACRYL-ETHYLEETHER	FEMA 4-40
CARVONE	FEMA 80-3,000
CARYOPHYLLENE	FEMA 20-200
CARYOPHYLLENE-ACETATE	FEMA 2-175

Chemical	Dosage
CARYOPHYLLENE-ALCOHOL	FEMA 5-50
CINNAMALDEHYDE	--
CINNAMIC-ACID	FEMA 4-40
CINNAMICALDEHYDE-ETHYLENE-GLYCOL-ACETAL	FEMA<1-2
CINNAMYL-ACETATE	FEMA 1-18
CINNAMYL-ANTHRANILATE	FEMA 3-750
CINNAMYL-BUTYRATE	FEMA <1-2
CINNAMYL-CINNAMATE	FEMA <1
CINNAMYL-FORMATE	FEMA <1
CINNAMYL-ISOBUTYRATE	FEMA 2-150
CINNAMYL-ISOVALERATE	FEMA 2-40
CINNAMYL-PROPIONATE	FEMA 1-50
CIS-3-HEXENAL	FEMA 0.2-5
CIS-3-HEXENOL	FEMA 1-5
CIS-3-HEXENYL-ISOVALERATE	FEMA <1-5
CITRAL	FEMA 4-170
CITRAL-DIETHYLACETAL	FEMA 10-100
CITRAL-DIMETHYLACETAL	FEMA 5-65
CITRIC-ACID	FEMA 370-4,400
CITRONELLAL	FEMA <1
CITRONELLOL	FEMA 1-50
CITRONELLYL-ACETATE	FEMA <1-700
CITRONELLYL-BUTYRATE	FEMA <1-2
CITRONELLYL-FORMATE	FEMA 4-100
CITRONELLYL-ISOBUTYRATE	FEMA <1-2
CITRONELLYL-PHENYLACETATE	FEMA <1-2
CITRONELLYL-PROPIONATE	FEMA 2-20

Chemical	Dosage
CITRONELLYL-VALERATE	FEMA 2-20
CREOSOL	FEMA 0.02-20
CREOSOTE	FEMA
CUMIN-ALCOHOL	FEMA 0.5-35
CUMINALDEHYDE	FEMA <1
CYCLOHEXANE-ACETIC-ACID	FEMA <1
CYCLOHEXYL-ACETATE	FEMA 10-120
CYCLOHEXYL-ANTHRANILATE	FEMA <1
CYCLOHEXYL-BUTYRATE	FEMA <1-35
CYCLOHEXYL-CINNAMATE	FEMA <1-20
CYCLOHEXYL-FORMATE	FEMA <1-1
CYCLOHEXYL-ISOVALERATE	FEMA 6-70
CYCLOHEXYL-PROPIONATE	FEMA <1-1
CYCLOPENTADECANOLIDE	FEMA 0.02-1.5
D-LIMONENE	FEMA 30-2,300
DECANAL-DIMETHYL-ACETAL	FEMA <1
DECANOIC-ACID	FEMA <1-1
DECEN-2-AL	FEMA
DECYL-ACETATE	FEMA <1-1
DECYL-BUTYRATE	FEMA <1-1
DELTA-3-CARENE	FEMA
DELTA-DECALACTONE	FEMA <1-10
DELTA-DODECALACTONE	FEMA <1-5
DIACETYL	FEMA 3-50
DIALLYL-DISULFIDE	FEMA 5-8
DIALLYL-SULFIDE	FEMA 1-50
DIBENZYL-KETONE	FEMA <1-1

Chemical	Dosage
DIBUTYL-SULFIDE	FEMA <1-1
DIETHYL-MALATE	FEMA 20-45
DIETHYL-MALONATE	FEMA 2-20
DIETHYL-SEBACATE	FEMA 40-500
DIETHYL-SUCCINATE	FEMA
DIETHYL-TARTRATE	FEMA 20-200
DIHYDROANETHOLE	FEMA 5-70
DIHYDROCARVEOL	FEMA 5-500
DIHYDROCARVYL-ACETATE	FEMA 5-500
DIHYDROCOUMARIN	FEMA 5-80
DIHYDROCUMINYL-ALCOHOL	FEMA 0.5-50
DIMETHYL-BENZYL-CARBINOL	FEMA 10-100
DIMETHYL-BENZYL-CARBINYL-ACETATE	FEMA 2-20
DIMETHYL-BENZYL-CARBINYL-BUTYRATE	FEMA 2-20
DIMETHYL-BENZYL-CARBINYL-FORMATE	FEMA <1-2
DIMETHYL-OCTANOL	FEMA 5-50
DIMETHYL-PHENYL-CARBINYL-ISOBUTYRATE	FEMA 4-40
DIMETHYL-PHENYLETHYL-CARBINYL-ACETATE	FEMA 0.5-10
DIMETHYL-PHENYLETHYL-CARBINYL-ISOBUTYRATE	FEMA 0.5-50
DIMETHYL-SUCCINATE	FEMA 10-100
DIMETHYL-SULFIDE	FEMA 0.1-2
DODECANAL	FEMA 1-100
DODECANOIC-ACID	FEMA 2-40
DODECANOL	FEMA 1-30
ESTRAGOLE	FEMA 4-150
ETHYL-2-FURAN-PROPIONATE	FEMA 2-10
ETHYL-ACETATE	FEMA 20-1,500

Chemical	Dosage
ETHYL-ACETOACETATE	FEMA 125-500
ETHYL-ACONITATE	FEMA 6-60
ETHYL-ACRYLATE	FEMA<1-1
ETHYL-AMYL-KETONE	FEMA 3-10
ETHYL-ANISATE	FEMA 5-7
ETHYL-ANTHRANILATE	FEMA
ETHYL-BENZOATE	FEMA 2-60
ETHYL-BENZOYL-ACETATE	FEMA 1-10
ETHYL-BENZYL-ACETOACETATE	FEMA 0.1-7
ETHYL-BENZYL-ETHER	FEMA 5-8
ETHYL-BUTYRALDEHYDE	FEMA 4-40
ETHYL-BUTYRATE	FEMA 30-1,400
ETHYL-CINNAMATE	FEMA 4-40
ETHYL-CYCLOHEXYL-ACETATE	FEMA 2-20
ETHYL-CYCLOHEXYL-PROPIONATE	FEMA 3-30
ETHYL-DECYLATE	FEMA 2-25
ETHYL-FORMATE	FEMA 10-450
ETHYL-ISOBUTYRATE	FEMA 20-200
ETHYL-ISOEUGENOL	FEMA 1-20
ETHYL-ISOVALERATE	FEMA 5-450
ETHYL-LACTATE	FEMA 70-3,100
ETHYL-LAURATE	FEMA <1-40
ETHYL-LEVULINATE	FEMA 6-12
ETHYL-METHYL-PHENYL-GLYCIDATE	FEMA 5-500
ETHYL-MYRISTATE	FEMA 6-30
ETHYL-N-BUTYL-KETONE	FEMA 0.1-200
ETHYL-N-BUTYL-MALONATE	FEMA<1-1

Chemical	Dosage
ETHYL-NITRATE	FEMA 0.1-50
ETHYL-NITRITE	FEMA 0.1-50
ETHYL-NONANOATE	FEMA 4-600
ETHYL-OCTIN-CARBONATE	FEMA 0.5-1
ETHYL-OENANTHATE	FEMA
ETHYL-OLEATE	FEMA 0.1-40
ETHYL-OXYHYDRATE	FEMA 60-1600
ETHYL-PALMITATE	FEMA 20-50
ETHYL-PHENYLACETATE	FEMA 2-25
ETHYL-PROPIONATE	FEMA 10-1,100
ETHYL-PYRUVATE	FEMA 20-150
ETHYL-SALICYLATE	FEMA <1-1000
ETHYL-SORBATE	FEMA 5-20
ETHYL-TIGLATE	FEMA 5-20
ETHYL-UNDECYLENATE	FEMA 1-10
ETHYL-VALERATE	FEMA 5-250
ETHYL-VANILLIN	FEMA 20-28000
ETHYLENE-OXIDE	FEMA 15-50
EUGENOL	FEMA 10-500
EUGENYL-FORMATE	FEMA <1-1
FARNESOL	FEMA 0.1-3
FENCHONE	FEMA 0.1-5
FENCHYL-ALCOHOL	FEMA 0.2-5
FORMIC-ACID	FEMA 500-2,500
FUMARIC-ACID	FEMA 50-3,600
FURFURAL	FEMA 1-30
FURFURAL-ACETONE	FEMA 2-50

Chemical	Dosage
FURFURYL-ALCOHOL	FEMA 10-100
FURYL-ACROLEIN	FEMA 0.1-40
GAMMA-HEXALACTONE	FEMA 0.1-90
GAMMA-N-DECALACTONE	FEMA <1
GAMMA-NONALACTONE	Jan-50
GAMMA-TERPINENE	FEMA 1-40
GAMMA-UNDECALACTONE	FEMA 3-100
GERANIOL	FEMA 1-10
GERANYL-ACETATE	FEMA 1-20
GERANYL-BENZOATE	FEMA 0.1-0.5
GERANYL-BUTYRATE	FEMA 1-10
GERANYL-CAPROATE	FEMA 1-3
GERANYL-FORMATE	FEMA 1-10
GERANYL-ISOVALERATE	FEMA 4-10
GERANYL-PHENYLACETATE	FEMA 1-10
GERANYL-PROPIONATE	FEMA 1-70
GERANYLACETOACETATE	FEMA 1-10
GLYCERIN	FEMA 500-400,000
GLYCERYL-MONO-OLEATE	FEMA 600-2,000
GLYCERYL-MONOSTEARATE	FEMA 100-2,000
GLYCYRRHIZIN	FEMA 5-60
GUAIACOL	FEMA <1-1
GUAIACYL-ACETATE	FEMA 3-15
GUAIACYL-PHENYLACETATE	FEMA 0.4-3
GUAIYL-ACETATE	FEMA 0.5-2
HELIOTROPINE	FEMA 5-40
HELIOTROPYL-ACETATE	FEMA 25-80

Chemical	Dosage
HELIOTROPYL-ACETONE	FEMA 8-50
HELIOTROPYL-ISOBUTYRATE	FEMA 0.05-3.5
HEPTANAL-DIMETHYLACETAL	FEMA 0.1-1
HEPTANAL-GLYCERYL-ACETAL	FEMA 5-100
HEPTYL-ACETATE	FEMA 3-5
HEPTYL-FORMATE	FEMA 1-4
HEPTYLISOBUTYRATE	FEMA 0.5-3
HEXADECANOL	FEMA<1-2
HEXANAL	FEMA <1-5
HEXANOIC-ACID	FEMA 2-450
HEXANOL	FEMA 0.2-25
HEXYL-2-METHYLBUTYRATE	FEMA <1
HEXYL-ACETATE	FEMA 3-25
HEXYL-BUTYRATE	FEMA 2-10
HEXYL-CAPRYLATE	FEMA <1-1
HEXYL-CINNAMIC-ALDEHYDR	FEMA <1-10
HEXYL-FORMATE	FEMA 10-50
HOMOCINNAMYL-ALCOHOL	FEMA 2-20
HYDRATROPALDEHYDE	FEMA 0.3-1
HYDRATROPALDEHYDE-DIMETHYLACETAL	FEMA 0.2-5
HYDRATROPYL-ALCOHOL	FEMA 0.5-15
HYDRATROPYL-BUTYRATE	FEMA 5-20
HYDRATROPYL-BUTYRATE	FEMA 1-3
HYDROQUINONE	FEMA 5-50
HYDROQUINONE-DIMETHYL-ETHER	FEMA <1-5
ISOPROPYL-ACETATE	FEMA 20-80
ISOPROPYL-ALCOHOL	FEMA 10-80

Chemical	Dosage
ISOPULEGOL	FEMA 5-30
ISOPULEGONE	FEMA 5-15
ISOQUINOLINE	FEMA 0.2-4
ISOVALERALDEHYDE	FEMA 0.5-5
ISOVALERIC-ACID	FEMA 1-16
L-CARVEOL	FEMA 2-25
L-CARVYL-ACETATE	FEMA 4-40
L-CARVYL-PROPIONATE	FEMA 2-25
L-GLUTAMINE	FEMA
L-MENTHOL	FEMA 35-1,200
L-MENTHYL-ACETATE	FEMA 5-25
LACTIC-ACID	FEMA 10-25,000
LEVULINIC-ACID	FEMA 5-50
LIMONENE	--
LINALOOL	FEMA 2-40
LINALYL-ACETATE	FEMA 2-15
LINALYL-CAPROATE	FEMA 3-15
LINALYL-FORMATE	FEMA 1-15
MALTOL	FEMA 5-250
MENTHONE	FEMA 5-50
METHYL-2-METHYL-BUTYRATE	FEMA 5-20
METHYL-ACETATE	FEMA 1-30
METHYL-ANISATE	FEMA 2-10
METHYL-ANTHRANILATE	FEMA 0.2-2,200
METHYL-BENZOATE	FEMA 2-10
METHYL-BUTYRATE	FEMA 20-100
METHYL-CAPROATE	FEMA <1-20

Chemical	Dosage
METHYL-CAPRYLATE	FEMA 0.2-40
METHYL-CINNAMATE	FEMA 2-40
METHYL-ETHYL-KETONE	FEMA 20-250
METHYL-EUGENOL	FEMA 5-15
METHYL-ISOBUTYL-KETONE	18-May
METHYL-ISOEUGENOL	FEMA 5-100
METHYL-ISOVALERATE	FEMA 10-95
METHYL-N-AMYLKETONE	FEMA 2-25
METHYL-NONANOATE	FEMA 3-7
METHYL-NONYL-KETONE	FEMA 0.5-5
METHYL-PHENYLACETATE	FEMA 0.1-35
METHYL-SALICYLATE	FEMA 70-8,000
MUFA	FEMA 1-30
MUFAS	FEMA 1-30
MYRCENE	FEMA 0.5-9
MYRISTIC-ALDEHYDE	FEMA 0.1-3
MYRISTICIN	FEMA 0.1-10
N-BUTYL-ALCOHOL	FEMA 1-35
N-BUTYL-ANTHRANILATE	FEMA -10
N-BUTYL-CAPROATE	FEMA 1-10
N-BUTYL-CINNAMATE	FEMA 12-15
N-BUTYL-FORMATE	FEMA 10-12
N-BUTYL-HEPTOATE	FEMA 2-25
N-BUTYL-LACTATE	FEMA <1-2
N-BUTYL-LAURATE	FEMA 4-40
N-BUTYL-LEVULINATE	FEMA <1-2
N-BUTYL-N-BUTYRATE	FEMA 20-1,200

Chemical	Dosage
N-BUTYL-N-ISOBUTYRATE	FEMA 40-2,000
N-BUTYL-PHENYLACETATE	FEMA 1-15
N-BUTYL-PROPIONATE	FEMA 3-30
N-BUTYL-UNDECYLINATE	FEMA 5-70
N-BUTYL-VALERATE	FEMA 1-10
N-BUTYLACETATE	FEMA 30-240
N-BUTYRALDEHYDE	FEMA <1-5
N-BUTYRIC-ACID	FEMA 30-300
N-DECANAL	FEMA <1-4
N-DODECEN-2-AL	FEMA <1-1
N-DODECYL-ACETATE	FEMA 1-6
N-HEPTANAL	FEMA 1-5
N-HEPTANE	FEMA
N-HEPTYL-CAPRYLATE	FEMA <1-1
N-HEPTYL-CINNAMATE	FEMA 1-280
N-HEPTYL-N-BUTYRATE	FEMA 0.5-3
N-HEXYL-FUROATE	FEMA 0.2-1
N-HEXYL-ISOVALERATE	FEMA <1-1
N-HEXYL-PROPIONATE	FEMA 5-25
N-NONANAL	FEMA 0.2-6
N-OCTANAL	FEMA 0.1-5
N-PROPYL-MERCAPTAN	FEMA 0.1-0.5
N-VALERALDEHYDE	FEMA 1-5
NARINGIN	FEMA
NEROL	FEMA 1-20
NEROLIDOL	FEMA 1-10
NERYL-ACETATE	FEMA 1-15

Chemical	Dosage
NERYL-FORMATE	FEMA 5-15
NONANOIC-ACID	FEMA 1-15
NOOTKATONE	FEMA 3-50
O-CRESOL-METHYL-ETHER	FEMA 1-4
O-METHOXYCINNAMALDEHYDE	30-200
OCTANOIC-ACID	FEMA 3-20
OCTYL-ISOVALERATE	FEMA 0.5-5
OLEIC-ACID	FEMA 1-30
P-ANISALDEHYDE	FEMA 0.5-75
P-CRESOL	FEMA <1
P-CRESOL-METHYL-ETHER	FEMA 0.5-8
P-CRESYL-ACETATE	FEMA 0.5-220
P-CRESYL-ISOBUTYRATE	FEMA 0.05-8
P-CRESYL-PHENYLACETATE	FEMA 1-6
P-CYMENE	FEMA 12-250
P-ETHOXY-BENZALDEHYDE	FEMA<1-1
P-METHOXYPHENYLACETONE	FEMA 0.5-5
P-METHYL-ACETOPHENONE	FEMA 1-1,000
PALMITIC-ACID	FEMA 1
PHENETHYL-ALCOHOL	--
PHENYL-ACETALDEHYDE	FEMA 0.8-10
PHENYLACETIC-ACID	FEMA 0.1-30
PHENYLETHYL-2-METHYLBUTYRATE	FEMA 1-9
PHOSPHORIC-ACID	FEMA 500-5,000
PIPERIDINE	FEMA .1-5
PIPERINE	FEMA 0.01
PIPERITONE	FEMA 1-2

Chemical	Dosage
POTASSIUM-ACETATE	FEMA 1-2
POTASSIUM-BICARBONATE	FEMA
POTASSIUM-BITARTRATE	FEMA
POTASSIUM-SORBATE	FEMA 100-1,000
PROPIONALDEHYDE	FEMA 5-12
PROPIONIC-ACID	FEMA 1-36,000
PULEGONE	FEMA 5-30
PYRIDINE	FEMA 0.02
PYRUVIC-ACID	FEMA 1-110
QUININE	FEMA 5-83 (-100)
SALICYLALDEHYDE	FEMA 0.5-20
SEDANOLIDE	5-Jan
SORBIC-ACID	FEMA
SORBITOL	FEMA 1,000-280,000
STEARIC-ACID	FEMA 2-4,000
TANNIC-ACID	FEMA 1-1,000
TARTARIC-ACID	FEMA 500-10,000
TERPINOLENE	FEMA 15-60
TERPINYL-ACETATE	FEMA 1-260
THREONINE	FEMA 1,000
THYMOL	FEMA 2-100
TRANS-2-HEXENAL	FEMA 0.7-20
TRANS-2-HEXENOL	FEMA <1-1
TRANS-2-HEXENYL-ACETATE	FEMA <0.3-3
TRANS-ANETHOLE	FEMA 1,250-3,150
TRANS-CINNAMALDEHYDE	FEMA 70-5,000
UNDECANAL	FEMA 1-60

Chemical	Dosage
VALERIC-ACID	FEMA 1-8
VALINE	FEMA 1,000-2,000
VANILLIN	FEMA 50-20,000
ZINGERONE	FEMA 1-100