

## Siebel Institute Sensory Kit Contents

No.	Name	Flavor	%	Solute	Concentration	AKA	Used?
1	Acetaldehyde	Green apple	1.4%	DI-H2O	45 mg/L		
2	Acetic Acid - glacial	Vinegar	6.4%	DI-H2O	270 mg/L		
3	Benzaldehyde	Almond, marzipan	0.1%	20% ethanol	3 mg/L	Artificial almond oil	
4	Butyric Acid	Rancid butter, putrid	0.2%	20% ethanol	7.5 mg/L		
5	2,3-Pentanedione	Butter, butterscotch	0.03%	DI-H2O	0.9 mg/L	Dicetyl	
6	Dimethyl Sulfide	Cooked corn, cooked vegetable	0.011%	20% ethanol	360 µg/L		
7	2-Ethyl fenchol	Earthy	0.004%	20% ethanol	15 µg/L		
8	Ethanethiol	Skunky, sewer gas	0.0001%	DI-H2O	3.75 µg/L	Ethyl mercaptan	
9	Ethyl Acetate	Solventy esters	2.5%	20% ethanol	90 mg/L		
10	Ethyl Hexanoate	Apple esters	0.02%	20% ethanol	0.6 mg/L	Ethyl caproate	
11	Eugenol	Clove	0.003%	20% ethanol	120 µg/L	Eugenic Acid	
12	Ferrous Sulfate, 7-hydrate	Metallic	0.1%	DI-H2O	3.75 mg/L	Iron (II) Sulfate	
13	Geraniol	Floral, rose-like, perfumy	0.013%	20% ethanol	450 µg/L	Guaniol, Lemonol	
14	Indole	Barnyard	0.015%	20% ethanol	0.55 mg/L	Benzopyrrole	
15	Isoamyl Acetate	Banana esters, pear drop	0.13%	20% ethanol	4.5 mg/L		
16	Isobutyraldehyde	Grainy, husky, nutty	0.12%	20% ethanol	3.75 mg/L	Isobutaldehyde	
17	Isovaleric Acid	Cheesy, sweaty	0.08%	20% ethanol	3 mg/L	Acetic acid - isopropyl	
18	Lactic Acid	yogurt, sour milk	8.3%	DI-H2O	400 mg/L	DL-Lactic Acid	
19	Octanoic Acid	Soapy, fatty, goaty	0.87%	40% ethanol	31.5 mg/L	Cyprilic Acid	
20	Trans-2-Nonenal	Papery, cardboard, oxidized	0.00005%	DI-H2O	2 µg/L		
21	Vanillin	Vanilla	0.004%	20% ethanol	150 µg/L	Vanilla	
22	Isohop/Isolone	Hop bitterness	0.75%	Dilute propylene glycol	24 mg/L	Hop oil	
23	2,3-Butanedione	Infection (Buttery)	0.005%	DI-H2O	0.2 mg/L	Mixture	
23	Acetic Acid	Infection (Sour)	4.3%	DI-H2O	180 mg/L	Mixture	
24	Eugenol	Hefeweizen (Clove)	0.002%	20% ethanol	80 µg/L	Mixture	
24	Isoamyl Acetate	Hefeweizen (Banana esters)	0.09%	20% ethanol	3 mg/L	Mixture	