

System chart of quality assessment term regarding awamori flavor

Class	Code	Layer 1	Layer 2	Details / Definition / Synonyms	Standard sample	Threshold	(Reference)
fruity – aromatic – floral	110	fruity					
	111		banana				
	112		apple				
	113		pineapple				
	114		melon				
	115		strawberry				
	116		orange				
	117		mango				
	118		plum				
	120	ester					
	121		ethyl acetate		ethyl acetate	70mg/l(25%(v/v) EtOH)	1
	122		isoamyl acetate	See also banana(111)	isoamyl acetate	0.54mg/l(25%(v/v) EtOH)	1
	123		ethyl caprate	See also apple(112)	ethyl caprate	0.042mg/l(25%(v/v) EtOH)	1
	124		ethyl caprylate		ethyl caprylate	0.63mg/l(25%(v/v) EtOH)	1
130	alcohol			aroma associated with alcohol or solvent			
131		ethanol			ethanol		
132		isobutyl alcohol			isobutyl alcohol	330mg/l(25%(v/v) EtOH)	1
133		isoamyl alcohol			isoamyl alcohol	64mg/l(25%(v/v) EtOH)	1
134		phenethyl alcohol			phenethyl alcohol	35mg/l(25%(v/v) EtOH)	1
140	flower			aroma associated with flower			
141		white plum*		See also (840)			
grassy – nutty – spicy	210	grass		aroma associated with grass, leaf, or straw			
	211		acetaldehyde		acetaldehyde	18mg/l(25%(v/v) EtOH)	1
	212		hexanal		hexanal	0.024mg/l(25%(v/v) EtOH)	2
	220	nuts		aroma associated with nuts			
	221		almond				
	222		furfural	See also (451)	furfural	35mg/l(25%(v/v) EtOH)	1
	223		isovaleraldehyde		isovaleraldehyde	0.12mg/kg(awamori(9.4%))	3
	230	beans		aroma associated with beans			
	231		peanut				
	232		azuki bean				
	240	sesame		aroma associated with sesame			
250	spices		aroma associated with smoking or spices such as cinnamon, clove etc.				
251		4-vinylguaiaicol		4-vinylguaiaicol	0.12mg/l(25%(v/v) EtOH)	1	
cereals – mushrooms	310	cereals		aroma associated with cereals such as rice			
	311		rice hulls				
	312		ground rice				
	313		steamed rice				
	320	rice bran		aroma associated with rice bran			
	330	mushroom		aroma associated with mushroom			
	331		1-octen-3-ol		1-octen-3-ol	0.02mg/kg(dry white wine)	4
sweet – caramel-like – toasty	410	vanilla		aroma associated with vanilla	vanillin	0.5mg/l(25%(v/v) EtOH)	1
	420	dried fruits		aroma associated with dried fruits			
	430	caramel		aroma associated with caramel	sotolon	0.005mg/kg(EtOH(14%))	5
	431		honey				
	432		molasses				
	440	soy sauce		aroma associated with soy sauce			
	450	toasty		burnt or toasty aromes			
451		furfural	See also (222)	furfural	35mg/l(25%(v/v) EtOH)	1	
vegetables – sulfur	510	boiled vegetables		aroma associated with boiled vegetables			
	511		DMS		DMS	0.011mg/l(25%(v/v) EtOH)	1
	512		methyl mercaptan	gas odor	ethylmercaptan	0.00052mg/l(25%(v/v) EtOH)	1
	520	algae		aroma associated with kelp			
	530	pickled radish		aroma associated with pickles such as pickled radish			
	531		DMTS		DMTS	0.000090mg/l(25%(v/v) EtOH)	1
	540	rubber		aroma associated with rubber			
sour	610	vinegar		aroma associated with acidity			
	611		acetic acid		acetic acid	26mg/kg(awamori(9.4%))	3
	612		butylic acid		butylic acid	3.4-4mg/kg(awamori(9.4%))	3
	620	yoghurt		aroma associated with yoghurt or cheese			
	621		diacetyl		diacetyl	0.021mg/l(25%(v/v) EtOH)	1
oily – soapy	710	musk		aroma associated with goat meat, mutton, etc			
	711		caproic acid		caproic acid	8.6-8.8mg/kg(awamori(9.4%))	3
	712		caprylic acid		caprylic acid	15mg/kg(awamori(9.4%))	3
	720	soap		aroma associated with soap	ethyl laurate	0.64mg/kg(awamori(9.4%))	3
	730	rancid		aroma associated with oxidated oil, crayon etc.			
kusu (aged awamori)*	810	vanilla		See also (410)	vanillin	0.5mg/l(25%(v/v) EtOH)	1
	820	caramel		See also (430)	sotolon	0.005mg/kg(EtOH(14%))	5
	830	soap		See also (720)	ethyl laurate	0.64mg/kg(awamori(9.4%))	3
	840	white plum*		aroma associated with white plum※			
	850	ripe physalis*		aroma associated with ripe physalis※			
	860	goaty*		aroma associated with male goat※			
varieties of aging vessels	910	clay vessel		aroma associated with clay	awamori stored in clay vessel		
	920	wooden barrel		woody aroma	awamori stored in wooden barrel		
	930		whisky lactone		whisky lactone		
taints	1010	mold		aroma associated with mold or soil			
	1011		moldy odor		TCA	0.0017-0.0018mg/kg(sake)	6
	1012		earthy odor		geosmin		
	1020	paper		aroma associated with paper			
	1030	resin		aroma associated with plastic			
sweet	1110	sweetness		<i>sweet</i>			
acid	1210	acidity		<i>acid</i>			
bitter	1310	bitterness		<i>bitter</i>			
minerals	1410	minerality					
mouthfeel	1510	astringency		<i>astringent</i>			
	1520	hotness		intense, spicy heat			
	1530	pungency					
	1531		rough	strong pungency			
	1532		round	weak pungency			
	1540	grained					
	1541		coarse	<i>coarse</i>			
	1542		smooth				
	1550	viscosity		smooth and viscous mouthfeel			
	1560	oiliness		oily mouthfeel			
aftertaste	1610	long/short		taste lingering on after swallowing liquid			
	1611		short	taste vanishes quickly after swallowing liquid			
	1612		long	taste remains for a long time after swallowing liquid			
body	1710	full/light		strength of flavor and mouthfeel			
	1711		full	<i>full</i>			

Words with ※ are published provisionally because they have not been established their common view yet.

Reference 1 (cognitive threshold) : Oishi, M., Nekogaki, K., Kajiwara, Y., Takashita, H., Shimoda, M., Okazaki, N., J. Brew. Soc. Japan., **108**,113(2013)

Reference 2 (threshold) : Setoguchi, T., Kamiwatari, T., J. Brew. Soc. Japan., **111**,345(2016)

Reference 3 (detection threshold) : P.SALO et al., J. Food Sci.,394-398,37(1972)

Reference 4 : J.M.AMON: Australian & New Zealand Wine Industry Journal,62-69,4(1989)

Reference 5 : L.MOYANO et al.: J. Agric. Food Chem.,6900-6904,58(2010)

Reference 6 (threshold) : Utsunomiya, H., Isogai, A., Iwata, H., J. Brew. Soc. Japan., **99**,652(2004)

NOTE: Synonyms are written in italic.