

Saffron (*Crocus sativus*)

Study	Amanpour et al 2015	Chen et al. 2020	Chen et al. 2020	Chen et al. 2020	Chen et al. 2020	Chen et al. 2020	Cerdá-Bernad et al 2022	Cerdá-Bernad et al 2022	Cerdá-Bernad et al 2022	Cerdá-Bernad et al 2022	Study
Extraction Method	Solvent extraction	Not specified	Not specified	Not specified	Not specified	Not specified	Headspace Solid Phase Micro-Extraction (HS-SPME)	Headspace Solid Phase Micro-Extraction (HS-SPME)	Headspace Solid Phase Micro-Extraction (HS-SPME)		Extraction Method
Plant Part	Dried stigmas	Vacuum dried stigmas	Microwave dried stigmas	Oven dried stigmas	Infrared dried stigmas	Freeze dried stigmas	Dried stigmas	Dried stigmas	Dried stigmas		Plant Part
Origin	South Khorasan, Iran	Hangzhou, China)	Hangzhou, China)	Hangzhou, China)	Hangzhou, China)	Hangzhou, China)	Castilla-La Mancha region, Spain	Torbat zone, Iran	Kozani area, Greece		Origin
Aroma compounds										Odor Descriptors	Aroma compounds
Safranal (2,6,6-trimethyl-1,3-cyclohexadiene-1-carboxaldehyde)	25.85% - 25.18%	13.6	20.54	15.73	22.18	10.31	67.01%	61.22%	57.41%	Fresh, herbal, saffron, spicy	Safranal (2,6,6-trimethyl-1,3-cyclohexadiene-1-carboxaldehyde)
Isophorone (3,5,5-trimethyl-2-cyclohexen-1-one)	10.07% - 9.81%	5.5	14.57	7.93	15.68	5.17	13.30%	12.24%	14.96%	Woody, sweet, camphoreous, musty	Isophorone (3,5,5-trimethyl-2-cyclohexen-1-one)
4-Ketoisophorone	7.45% - 7.26%	7.99	16.11	11.73	16.09	28.2	2.46%	5.52%	6.10%	Musty, woody, sweet	4-Ketoisophorone
$\beta$ -Isophorone (3-Cyclohexen-1-one, 3,5,5-trimethyl- )	-	3.4	6.62	4.44	6.69	2.61	0.08%	0.04%	0.06%	Woody, sweet, camphoreous, musty	$\beta$ -Isophorone (3-Cyclohexen-1-one, 3,5,5-trimethyl- )
Dihydrooxophorone (3,5,5-trimethyl-1,4-cyclohexanedione)	7.05% - 6.86%	-	-	-	-	-	6.73%	6.78%	6.12%	Woody, musty, sweet	Dihydrooxophorone (3,5,5-trimethyl-1,4-cyclohexanedione)
Acetic acid	0.05% - 0.05%	-	-	-	-	-	0.16%	0.32%	0.28%	Pungent, sour, vinegar	Acetic acid
Linalool	0.13% - 0.13%	-	-	-	-	-	0.05%	0.06%	0.04%	Floral, citrus, rose	Linalool
(HTCC) 4-Hydroxy-2,6,6-trimethyl-1-cyclohexen-1-carboxaldehyde	0.55% - 0.53%	-	-	-	-	-	1.26%	1.38%	1.63%	Tropical, saffron, herbal	(HTCC) 4-Hydroxy-2,6,6-trimethyl-1-cyclohexen-1-carboxaldehyde
2-Hydroxyisophorone (2-hydroxy-3,5,5-trimethyl-2-cyclohexenone)	0.68% - 0.67%	-	-	-	-	-	0.18%	0.32%	0.11%	Woody, dry nutty, tobacco	2-Hydroxyisophorone (2-hydroxy-3,5,5-trimethyl-2-cyclohexenone)
4-Hydroxy-3,5,5-trimethylcyclohex-2-enone	0.63% - 0.62%	-	-	-	-	-	0.15%	0.43%	0.27%	Camphor	4-Hydroxy-3,5,5-trimethylcyclohex-2-enone