SARCO

L'expertise analytique

Wine Defects

OXIDATION

Compounds[2]	Aroma descriptors	White wine P.t.
Acetaldehyde	Apple, bitterness	160 mg/L
Ethyl acetate*	Solvent, glue	150 mg/L

SMOKE TAINT

Compounds[3]	Aroma descriptors	Red wine P.t.
Guaiacol	Smoke	75 µg/L
4-Methylguaiacol	Smoke, medicine, ashes	65 µg/L

EARTHY TAINTS

Compounds	Aroma descriptors	White wine P.t.
Geosmin[3]*	Wet earth, beetroot	40 ng/L
2-méthylisoborneol[3]	Earthy, camphor	45 ng/L
1-octen-3-one[2]	Fresh mushroom	40 ng/L
1-Octen-3-ol[3]	Mushroom, humus aromas	25 µg/L
2-Isopropyl-3-méthoxypyrazine[2]	Earthy, vegetal	3 ng/L

MOULDY, CORK TAINT

Compounds[3]	Aroma descriptors	White wine P.t.
2,4,6-Trichloroanisole (TCA)*	Cork taint, mouldy	3 ng/L
2,3,4,6-Tetrachloroanisole (TeCA)*	Mouldy	10 ng/L
2,3,4,5,6-Pentachloroanisole (PCA)*	Mouldy	4000 ng/L
2,4,6-Tribromoanisole (TBA)*	Cork taint, mouldy	4 ng/L
Halophenols (TCP, TeCP, PCP, TBP)*	/	/

VEGETAL

Compounds[2]	Aroma descriptors	Red wine P.t.
2-Isobutyl-3-methoxypyrazine	Green pepper, asparagus	15 ng/L
Hexanal	Floral, vegetal	5 µg/L
cis/trans-2-Hexen-1-ol	Herbaceous	15 mg/L

HORSEY, PHENOL TAINT

Compounds[3]	Aroma descriptors	Red wine P.t.
4-Ethylphenol* + 4-Ethylguaiacol*	Stable, horse sweat	426 µg/L
4-Vinylphenol + 4-Vinylguaiacol	Gouache paint, pharmaceutical	725 µg/L

REDUCTION

Compounds[2]	Aroma descriptors	Red wine P.t.
Hydrogen sulfide (H_2S)	Rotten egg	0,8 µg/L
Methanethiol	Stagnant water	0,3 µg/L
Ethanethiol	Onion	0,1 µg/L
Dimethyl sulfide	Quince	5 µg/L
Diethyl sulfide	Garlic	6 µg/L
Dimethyl disulfide	Cabbages	2,5 µg/L
Methionol	Cooked cabbage	1200 µg/L

PREMATURE OXIDATION

Compounds	Aroma descriptors	White wine P.t.
Sotolon[1]	Curry, walnut	8 µg/L
Phenylacetaldehyde[3]	Faded rose, honey	25 µg/L
Méthional[3]	Boiled potato	0.5 µg/L

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*compounds analysed under COFRAC accreditation

Analysis methods: [1]GC/MS [EI]-[CI] / [2]SPME-GC-MS / [3]SBSE/GC/MS ; **P.t.:** perception thresholds - *Faculté d'oenologie de Bordeaux*