



SARCO

L'expertise analytique

Wine aroma

Wine aroma is the balance between compounds of different chemical families derived from different origins: the grape variety, fermentation influences and/or maturation influences.



FURANONES

Compounds ³	Aroma descriptors	Red wine p.t.
Furaneol	Strawberry jam	60 µg/L
Homofuraneol	Candied fruits	40 µg/L



VOLATILE
THIOLS

Compounds ¹	Aroma descriptors	Water p.t.
4-Methyl-4-mercaptopentan-2-one	Box tree	0,8 ng/L
3-Mercaptohexanol	Grapefruit	60 ng/L
Acétate de 3-mercaptohexyl	Passion fruit	4 ng/L



WOOD
COMPOUNDS

compounds ³	Aroma descriptors	Red wine p.t.
<i>trans</i> -Nonenal	Fresh wood, wooden board	0.25 µg/L
<i>cis/trans</i> -Whiskylactone	Coconut	125 µg/L
Eugenol	Spicy, clove	500 µg/L
Iso-Eugenol	Spicy, clove	750 µg/L
Maltol	caramel	30 µg/L
Vanillin	Vanilla	320 µg/L
Furfural	Almond	20 000 µg/L
5-Methylfurfural	Grilled almond	45 000 µg/L
2-Furfurylthiol ¹	Roasted coffee	0.0004 µg/L
Guaiacol	Smoked	75 µg/L
4-Methylguaiacol	Smoked, medicinal	65 µg/L

✓ Some of these compounds are sensitive to oxidation, so reductant compounds (such as glutathione) can be quantified.



TERPENES

Compounds ³	Aroma descriptors	Red wine p.t.
Linalol	Rose	50 µg/L
Geranol	Rose	130 µg/L
Nerol	Rose	400 µg/L
α-Terpinéol	Lily of the valley	400 µg/L
Citronellol	Citronella	18 µg/L



C13
BY-PRODUCTS

Compounds ³	Aroma descriptors	Red wine p.t.
β-ionone	violet	1.2 µg/L
β-damascénone	Apple sauce	7 µg/L



FERMENTATION
AROMAS

Compounds ²	Aroma descriptors	White wine p.t.
Isoamyl acetate	Banana	2.7 mg/L
Hexyl acetate	Pear	2.4 mg/L
Phenylethyl acetate	Rose	6.0 mg/L
2-Phenylethanol	Rose, floral	20 mg/L
Ethyl propanoate	Cherry	2.1 mg/L
Ethyl-2-Methylpropanoate	Strawberry	1.8 mg/L
Ethyl butanoate	Pineapple	0.4 mg/L
Ethyl-2-Methylbutanoate	Strawberry (chemical)	5.6 mg/L
Ethyl hexanoate	Green apple	1.4 mg/L
Ethyl octanoate	floral	1.1 mg/L
Ethyl Decanoate	floral	1.5 mg/L

✓ These analyses can be completed by sensorial analyses made by our experts: graduated PhD scientists, enologists, flavourists.