

Phenolic compounds	codes
Benzoic acids and ethyl esters (mg/L)	
protocatechuic acid	BA1
protocatechuic acid ethyl ester	BA2
gallic acid	BA3
gallic acid ethyl ester	BA4
vanillic acid	BA5
syringic acid	BA6
Hydroxycinnamic acids (free and ethyl esters) (mg/L)	
p-coumaric acid	HCA1
p-coumaric acid ethyl ester (mg/L caffeic acid ethyl ester equivalent)	HCA2
caffeic acid	HCA3
caffeic acid ethyl ester	HCA4
ferulic acid	HCA5
Hydroxycinnamoyl tartrates (mg/L)	
p-coumaroyltartaric acid (mg/L caffeoyltartaric acid equivalent)	HCA6
caffeoyltartaric acid	HCA7
feruloyltartaric acid (mg/L caffeoyltartaric acid equivalent)	HCA8
2-S-glutathionylcaffeoyltartaric acid (Grape Reaction Product) (mg/L caffeoyltartaric acid equivalent)	GRP
Stilbenoids (mg/L)	
trans-piceid	ST1
cis-piceid (mg/L trans-piceid equivalent)	ST2
trans-resveratrol	ST3
cis-resveratrol (mg/L trans-resveratrol equivalent)	ST4
resveratrol dimer 1 (mg/L trans-resveratrol equivalent)	ST5
resveratrol dimer 2 (mg/L trans-resveratrol equivalent)	ST6
Flavonols (mg/L)	
quercetin 3-O-glucuronide (mg/L quercetin 3-O-glucoside equivalent)	FLO1
quercetin 3-O-glucoside	FLO2
myricetin 3-O-glucuronide (mg/L quercetin 3-O-glucoside equivalent)	FLO3
myricetin 3-O-glucoside (mg/L quercetin 3-O-glucoside equivalent)	FLO4
quercetin	FLO5
Dihydroflavonols (mg/L)	
taxifolin	DHF1
astilbin (mg/L quercetin 3-O-glucoside equivalent)	DHF2
Flavan-3-ol monomers and oligomers (mg/L)	
catechin	FLA1

epicatechin	FLA2
procyanidin dimer B1 (mg/L procyanidin dimer B2 equivalent)	FLA3
procyanidin dimer B2	FLA4
procyanidin dimer B3 (mg/L procyanidin dimer B2 equivalent)	FLA5
procyanidin dimer B4 (mg/L procyanidin dimer B2 equivalent)	FLA6
procyanidin dimer gallate (mg/L catechin equivalent)	FLA7
procyanidin trimer 1 (mg/L catechin equivalent)	FLA8
procyanidin trimer 2 (mg/L catechin equivalent)	FLA9

Flavan-3-ol phloroglucinolysis data

total flavanol units (phloroglucinolysis) (mg/L)	FLAT
mean degree of polymerisation (phloroglucinolysis)	mDP

Anthocyanins (mg/L malvidin 3-O-glucoside equivalent or mg/L malvidin 3,5-diglucoside equivalent *)

cyanidin 3-O-glucoside	AC1
delphinidin 3-O-glucoside	AC2
petunidin 3-O-glucoside	AC3
peonidin 3-O-glucoside	AC4
malvidin 3-O-glucoside	AC5
cyanidin 3-O-acetylglucoside	AC6
delphinidin 3-O-acetylglucoside	AC7
petunidin 3-O-acetylglucoside	AC8
peonidin 3-O-acetylglucoside	AC9
malvidin 3-O-acetylglucoside	AC10
cyanidin 3-O-coumaroylglucoside	AC11
delphinidin 3-O-coumaroylglucoside	AC12
petunidin 3-O-coumaroylglucoside	AC13
peonidin 3-O-coumaroylglucoside	AC14
malvidin 3-O-coumaroylglucoside	AC15
cyanidin 3-O-caffeoylglucoside	AC16
delphinidin 3-O-caffeoylglucoside	AC17
petunidin 3-O-caffeoylglucoside	AC18
peonidin 3-O-caffeoylglucoside	AC19
malvidin 3-O-caffeoylglucoside	AC20
cyanidin 3,5-diglucoside*	AC21
delphinidin 3,5-diglucoside*	AC22
petunidin 3,5-diglucoside*	AC23
peonidin 3,5-diglucoside*	AC24
malvidin 3,5-diglucoside*	AC25

Pyranoanthocyanins (mg/L malvidin-3-O-glucoside equivalent)

pyranocyanidin 3-O-glucoside	PY1
pyranodelphinidin 3-O-glucoside	PY2
pyranopetunidin 3-O-glucoside	PY3
pyranopeonidin 3-O-glucoside	PY4
Pyranomalvidin 3-O-glucoside = vitisin B	PY5

pyranocyanidin 3-O-acetylglucoside	PY6
pyranodelphinidin 3-O-acetylglucoside	PY7
pyranopetunidin 3-O-acetylglucoside	PY8
pyranopeonidin 3-O-acetylglucoside	PY9
pyranomalvidin 3-O-acetylglucoside	PY10
pyranopetunidin 3-O-coumaroylglucoside	PY11
pyranopeonidin 3-O-coumaroyl-glucoside	PY12
pyranomalvidin 3-O-coumaroylglucoside	PY13

Carboxypyrananthocyanins (mg/L malvidin-3-O-glucoside equivalent)

carboxypyranocyanidin 3-O-glucoside	CP1
carboxypyranodelphinidin 3-O-glucoside	CP2
carboxypyranopetunidin 3-O-glucoside	CP3
carboxypyranopeonidin 3-O-glucoside	CP4
carboxypyranomalvidin 3-O-glucoside = vitisin A	CP5
carboxypyranodelphinidin 3-O-acetylglucoside	CP6
carboxypyranopetunidin 3-O-acetylglucoside	CP7
carboxypyranopeonidin 3-O-acetylglucoside	CP8
carboxypyranomalvidin 3-O-acetylglucoside	CP9
carboxypyranopetunidin 3-O-coumaroylglucoside	CP10
carboxypyranopeonidin 3-O-coumaroylglucoside	CP11
carboxypyranomalvidin 3-O-coumaroylglucoside	CP12

Flavanol-anthocyanin adducts (mg/L malvidin-3-O-glucoside equivalent)

(epi)catechin-cyanidin 3-O-glucoside	FA1
(epi)catechin-delphinidin 3-O-glucoside	FA2
(epi)catechin-petunidin 3-O-glucoside	FA3
(epi)catechin-peonidin 3-O-glucoside	FA4
(epi)catechin-malvidin 3-O-glucoside	FA5
(epi)catechin-peonidin 3-O-acetylglucoside	FA6
(epi)catechin-malvidin 3-O-acetylglucoside	FA7
(epi)catechin-malvidin 3-O-coumaroylglucoside	FA8

Anthocyanin-flavanol adducts (A-type) (mg/L malvidin-3-O-glucoside equivalent)

cyanidin 3-O-glucoside -(epi)catechin (A-type)	AF1
delphinidin 3-O-glucoside -(epi)catechin (A-type)	AF2
petunidin 3-O-glucoside -(epi)catechin (A-type)	AF3
peonidin 3-O-glucoside -(epi)catechin (A-type)	AF4
malvidin 3-O-glucoside-(epi)catechin (A-type)	AF5

Caftaric-anthocyanin adducts (mg/L malvidin-3-O-glucoside equivalent)

caftaric-peonidin 3-O-glucoside	CAF1
caftaric-malvidin 3-O-glucoside	CAF2

Ethyl-flavanol dimers (mg/L catechin equivalent)

(epi)catechin-ethyl-(epi)catechin-1	EF1
-------------------------------------	-----

(epi)catechin-ethyl-(epi)catechin-2	EF2
Flavanol-ethyl-anthocyanins (mg/L malvidin-3-O-glucoside equivalent)	
(epi)catechin-ethyl-peonidin 3-O-glucoside-1	FEA1
(epi)catechin-ethyl-peonidin 3-O-glucoside-2	FEA2
(epi)catechin-ethyl-peonidin 3-O-glucoside-3	FEA3
(epi)catechin-ethyl-peonidin 3-O-glucoside-4	FEA4
(epi)catechin-ethyl-malvidin 3-O-glucoside-1	FEA5
(epi)catechin-ethyl-malvidin 3-O-glucoside-2	FEA6
(epi)catechin-ethyl-malvidin 3-O-glucoside-3-4	FEA7
(epi)catechin-ethyl-malvidin 3-O-coumaroylglucoside	FEA8
Phenylpyranoanthocyanins (mg/L malvidin-3-O-glucoside equivalent)	
p-hydroxyphenylpyranopeonidin 3-O-glucoside	PP1
p-hydroxyphenylpyranomalvidin 3-O-glucoside	PP2
p-hydroxyphenylpyranopeonidin 3-O-acetylglucoside	PP3
p-hydroxyphenylpyranomalvidin 3-O-acetylglucoside	PP4
p-hydroxyphenylpyranopeonidin 3-O-coumaroylglucoside	PP5
p-hydroxyphenylpyranomalvidin 3-O-coumaroylglucoside	PP6
p-hydroxyphenylpyranopetunidin 3-O-glucoside + catechylpyranopeonidin 3-O-glucoside	PP7
catechylpyranomalvidin 3-O-glucoside (pinotin A)	PP8
catechylpyranopetunidin 3-O-acetylglucoside	PP9
catechylpyranopeonidin 3-O-acetylglucoside+p-hydroxyphenylpyranopetunidin 3-O-acetylglucoside	PP10
catechylpyranomalvidin 3-O-acetylglucoside	PP11
catechylpyranopetunidin 3-O-coumaroylglucoside	PP12
catechylpyranopeonidin 3-O-coumaroylglucoside+p-hydroxyphenylpyranopetunidin 3-O-coumaroylglucoside	PP13
catechylpyranomalvidin 3-O-coumaroylglucoside	PP14
guaiacylpyranomalvidin 3-O-glucoside	PP15
guaiacylpyranomalvidin 3-O-acetylglucoside	PP16
guaiacylpyranomalvidin 3-O-coumaroylglucoside	PP17
syringylpyranomalvidin 3-O-glucoside	PP18
Flavanyl-pyranoanthocyanins (mg/L malvidin-3-O-glucoside equivalent)	
pyranopeonidin 3-O-glucoside-(epi)catechin	FPY1
pyranomalvidin 3-O-glucoside-(epi)catechin	FPY2
pyranomalvidin 3-O-coumaroylglucoside-(epi)catechin	FPY3
Others	
unknown 581 (mg/L malvidin-3-O-glucoside equivalent)	U581
unknown 551 (mg/L malvidin-3-O-glucoside equivalent)	U551
tryptophol	Al1
tyrosol	Al2
hydroxytyrosol	Al3
tyrosine	AA1
tryptophane	AA2
glutathione (GSH)	GSH

oxidized glutathione (GSSG)

GSSG

Enological variables

pH

pH

Free SO₂

FSO₂

Combined SO₂

CSO₂

Alcohol (%)

ALC

Color variables

Color intensity

CI

Hue

H

L*

L

a*

a

b*

b