



## Carignan N



### Name of the variety in France

Carignan

### Origin

This variety is of Spanish origin (probably from the Aragon region).

### Synonyms

In Spain, Carignan is officially designated as "Mazuela". This synonym is officially recognized in France regarding plant propagation material.

### Legal information

In France, Carignan is officially listed in the "Catalogue of Vine varieties" on the A list and classified. This variety is also listed in the catalogues of other Member States of the European Union: Bulgaria, Cyprus, Greece, Malta, Portugal and Spain.

### Use

Wine grape variety.

### Evolution of cultivated areas in France

	1958	1968	1979	1988	1998	2008	2018
ha	169712	211254	207103	176117	102317	73728	30993

### Descriptive elements

The identification is based on:

- the tip of the young shoot with a high density of prostate hairs,
- the shiny yellow young leaves,
- the shoots with red striped internodes,
- the large adult leaves, with five lobes, shallow to deep lateral sinuses, a slightly open or closed petiole sinus, a twisted very goffered leaf blade, on and the lower side of the leaves, a low density of prostate hairs,
- the round-shaped or broad ellipsoid berries.

## Genetic profile

Microsatellite	VVS2	VVMD5	VVMD7	VVMD27	VRZAG62	VRZAG79	VVMD25	VVMD28	VVMD32
Allel 1	141	223	239	178	186	252	240	247	249
Allel 2	143	225	239	182	188	260	254	257	251

## Phenology

Bud burst: 9 days after Chasselas.

Grape maturity: late-season, 4 weeks and a half after Chasselas.

## Suitability for cultivation and agronomic production

Carignan has an erect bearing. This is a fertile variety which has a steady and often substantial production. It is easily trained and must be pruned short (gobelet, cordon). Carignan is well adapted to hot and dry areas, with fairly poor soil (shale for example). It also appears well adapted to windy areas. In terms of mineral absorption, Carignan is sometimes susceptible to potassium deficiency.

## Susceptibility to diseases and pests

This variety is relatively unaffected by grey rot and is very little susceptible to phomopsis. On the other hand, its tremendous susceptibility to powdery mildew on the leaves and bunches is well known. It is also sensitive to vine leafhoppers.

## Technological potentiality

The bunches and berries are medium to large in size. Carignan has a moderate potential for sugar content and high color potential. The tannins are however harsh, herbaceous, bitter and the wines produced lack fruit and suppleness. These characteristics can be favorably corrected using carbonic maceration. This is oftentimes linked to the age of the vines, the production conditions and the terroir. Indeed, in poor fertile conditions, in good terroirs, with adult vines and limited production, the wines obtained can be powerful and generous.



## Clonal selection in France













The twenty-five certified Carignan clones carry the numbers 6, 7, 8, 9, 62, 63, 64, 65, 66, 90, 151, 152, 153, 171, 178, 179, 270, 271, 272, 273, 274, 275, 276, 505 and 547. A conservatory of almost 300 clones was planted in the French department of Aude in 1998.












## Bibliographic references

- Catalogue des variétés et clones de vigne cultivés en France. Collectif, 2007, Ed. IFV, Le Grau-du-Roi, France.
- Documentary collections of the Centre de Ressources Biologiques de la Vigne de Vassal-Montpellier, INRAE - Montpellier SupAgro, Marseillan, France.
- Dictionnaire encyclopédique des cépages et de leurs synonymes. P. Galet, 2015, Ed. Libre&Solidaire, France.
- Traité général de viticulture, Ampélographie. P. Viala and V. Vermorel, 1901-1909, Ed. Masson, Paris, France.

## Description of clones certified in France

Clone no.	Identity and availability		Agronomic data		Technological data	
	Origin	Selection	Fertility	Production level	Sugar level	Color potential
	Year of certification	Agronomic references	Bunch weight	Vigor	Titration acidity	Tannic structure
	Surface area used for propagation (year)		Berry size	Susceptibility to grey rot	Aromatic intensity	Oenological suitability
6	Gard	ENTAV	low to medium	low to medium	medium	
	1971	Languedoc	low to medium	high		
	5.73 ha					representative wines of the variety
ENTAV  INRA®						
7	Gard	ENTAV	medium	low to medium	medium	
	1971	Languedoc	low			
	1.32 ha					representative wines of the variety
ENTAV  INRA®						

Clone no.	Identity and availability		Agronomic data		Technological data	
	<i>Origin</i>	<i>Selection</i>	<i>Fertility</i>	<i>Production level</i>	<i>Sugar level</i>	<i>Color potential</i>
	<i>Year of certification</i>	<i>Agronomic references</i>	<i>Bunch weight</i>	<i>Vigor</i>	<i>Titration acidity</i>	<i>Tannic structure</i>
	<i>Surface area used for propagation (year)</i>		<i>Berry size</i>	<i>Susceptibility to grey rot</i>	<i>Aromatic intensity</i>	<i>Oenological suitability</i>
8	Gard	ENTAV	medium	medium	medium	
	1971	Languedoc	medium			
	0.38 ha					representative wines of the variety
ENTAV  INRA®						
9	Gard	ENTAV	low to medium	low to medium	medium to high	
	1971	Languedoc	medium			
	0.44 ha					representative wines of the variety
ENTAV  INRA®						
62	Gard	ENTAV	high	high	low	
	1971	Languedoc	medium			
	1.20 ha					representative wines of the variety
ENTAV  INRA®						
63	Gard	ENTAV	medium	medium	medium	
	1971	Languedoc	medium			
	0.74 ha					representative wines of the variety
ENTAV  INRA®						
64	Gard	ENTAV	medium	medium	medium	
	1971	Languedoc	medium	high		
	0.55 ha					representative wines of the variety
ENTAV  INRA®						
65	Gard	ENTAV	low	low	high	
	1971	Languedoc	low	low		
	0.55 ha					representative wines of the variety
ENTAV  INRA®						
66	Gard	ENTAV	medium to high	medium to high	medium	
	1971	Languedoc	medium			
	0.82 ha					representative wines of the variety
ENTAV  INRA®						
90	Gard	ENTAV	high	high	medium	
	1971	Languedoc	medium			
						representative wines of the variety
ENTAV  INRA®						
151	Aude	ENTAV	medium	high	medium	
	1972	Languedoc	high			
	1.94 ha					representative wines of the variety
ENTAV  INRA®						
152	Aude	ENTAV	medium	medium	medium	
	1972	Languedoc	medium			
						representative wines of the variety
ENTAV  INRA®						
153	Aude	ENTAV	medium	medium	medium	
	1972	Languedoc	medium			
	0.32 ha					representative wines of the variety
ENTAV  INRA®						
171	Gard	ENTAV	medium to high	medium to high	low to medium	
	1972	Languedoc	medium			
	4.15 ha					representative wines of the variety
ENTAV  INRA®						
178	Pyrénées-Orientales	ENTAV	medium	medium	medium	
	1972	Languedoc	low to medium			

Clone no.	Identity and availability		Agronomic data		Technological data	
	<i>Origin</i>	<i>Selection</i>	<i>Fertility</i>	<i>Production level</i>	<i>Sugar level</i>	<i>Color potential</i>
	<i>Year of certification</i>	<i>Agronomic references</i>	<i>Bunch weight</i>	<i>Vigor</i>	<i>Titrate acidity</i>	<i>Tannic structure</i>
	<i>Surface area used for propagation (year)</i>		<i>Berry size</i>	<i>Susceptibility to grey rot</i>	<i>Aromatic intensity</i>	<i>Oenological suitability</i>
0.17 ha					representative wines of the variety	
ENTAV  INRA <sup>®</sup>						
179	Aude	ENTAV	medium	medium	medium	
	1972	Languedoc	medium to high			
	0.10 ha					representative wines of the variety
ENTAV  INRA <sup>®</sup>						
270	Gard	ENTAV			medium	
	1973	Languedoc				
						representative wines of the variety
ENTAV  INRA <sup>®</sup>						
271	Gard	ENTAV	medium	medium	medium	
	1973	Languedoc	medium			
						representative wines of the variety
ENTAV  INRA <sup>®</sup>						
272	Gard	ENTAV	medium to high	medium	medium to high	
	1973	Languedoc	medium			
	0.21 ha					representative wines of the variety
ENTAV  INRA <sup>®</sup>						
273	Gard	ENTAV	medium to high	medium	medium	
	1973	Languedoc	medium			
						representative wines of the variety
ENTAV  INRA <sup>®</sup>						
274	Gard	ENTAV	medium	low to medium	medium	
	1973	Languedoc	low to medium			
	0.56 ha					representative wines of the variety
ENTAV  INRA <sup>®</sup>						
275	Gard	ENTAV	low to medium	medium	medium	
	1973	Languedoc	medium			
						representative wines of the variety
ENTAV  INRA <sup>®</sup>						
276	Gard	ENTAV	medium	medium to high	medium	
	1973	Languedoc	medium to high			
						representative wines of the variety
ENTAV  INRA <sup>®</sup>						
505	Hérault	ENTAV	medium	medium to high	medium	
	1976	Languedoc	medium to high			
						representative wines of the variety
ENTAV  INRA <sup>®</sup>						
547	Hérault	ENTAV	medium	medium to high	medium	
	1978	Languedoc	medium to high			
						representative wines of the variety
ENTAV  INRA <sup>®</sup>						



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