Fahrenheit to Celsius Conversion Chart

Every degree from −40 °F to 220 °F, plus oven temperatures with gas marks

For: Cooks, students, travellers and anyone reading US temperatures

allunitconversions.com/f-to-c-conversion-chart
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9 November 2026

EXACT DEFINITION	FORMULA	REVERSE	WORKED EXAMPLE
°C = (°F − 32) × 5/9 (exact)	°C = (°F − 32) ÷ 1.8	°F = (°C × 1.8) + 32	(350 °F − 32) ÷ 1.8 = 176.7 °C

Celsius values are rounded to 1 decimal place.

−40 °F to 220 °F

Fahrenheit (°F)	Celsius (°C)	Fahrenheit (°F)	Celsius (°C)	Fahrenheit (°F)	Celsius (°C)	Fahrenheit (°F)	Celsius (°C)	Fahrenheit (°F)	Celsius (°C)	Fahrenheit (°F)	Celsius (°C)
−40	−40.0	**4**	−15.6	**48**	8.9	**92**	33.3	**136**	57.8	**180**	82.2
−39	−39.4	**5**	−15.0	**49**	9.4	**93**	33.9	**137**	58.3	**181**	82.8
−38	−38.9	**6**	−14.4	**50**	10.0	**94**	34.4	**138**	58.9	**182**	83.3
−37	−38.3	**7**	−13.9	**51**	10.6	**95**	35.0	**139**	59.4	**183**	83.9
−36	−37.8	**8**	−13.3	**52**	11.1	**96**	35.6	**140**	60.0	**184**	84.4
−35	−37.2	**9**	−12.8	**53**	11.7	**97**	36.1	**141**	60.6	**185**	85.0
−34	−36.7	**10**	−12.2	**54**	12.2	**98**	36.7	**142**	61.1	**186**	85.6
−33	−36.1	**11**	−11.7	**55**	12.8	**99**	37.2	**143**	61.7	**187**	86.1
−32	−35.6	**12**	−11.1	**56**	13.3	**100**	37.8	**144**	62.2	**188**	86.7
−31	−35.0	**13**	−10.6	**57**	13.9	**101**	38.3	**145**	62.8	**189**	87.2
−30	−34.4	**14**	−10.0	**58**	14.4	**102**	38.9	**146**	63.3	**190**	87.8
−29	−33.9	**15**	−9.4	**59**	15.0	**103**	39.4	**147**	63.9	**191**	88.3
−28	−33.3	**16**	−8.9	**60**	15.6	**104**	40.0	**148**	64.4	**192**	88.9
−27	−32.8	**17**	−8.3	**61**	16.1	**105**	40.6	**149**	65.0	**193**	89.4
−26	−32.2	**18**	−7.8	**62**	16.7	**106**	41.1	**150**	65.6	**194**	90.0
−25	−31.7	**19**	−7.2	**63**	17.2	**107**	41.7	**151**	66.1	**195**	90.6
−24	−31.1	**20**	−6.7	**64**	17.8	**108**	42.2	**152**	66.7	**196**	91.1
−23	−30.6	**21**	−6.1	**65**	18.3	**109**	42.8	**153**	67.2	**197**	91.7
−22	−30.0	**22**	−5.6	**66**	18.9	**110**	43.3	**154**	67.8	**198**	92.2
−21	−29.4	**23**	−5.0	**67**	19.4	**111**	43.9	**155**	68.3	**199**	92.8
−20	−28.9	**24**	−4.4	**68**	20.0	**112**	44.4	**156**	68.9	**200**	93.3
−19	−28.3	**25**	−3.9	**69**	20.6	**113**	45.0	**157**	69.4	**201**	93.9
−18	−27.8	**26**	−3.3	**70**	21.1	**114**	45.6	**158**	70.0	**202**	94.4
−17	−27.2	**27**	−2.8	**71**	21.7	**115**	46.1	**159**	70.6	**203**	95.0
−16	−26.7	**28**	−2.2	**72**	22.2	**116**	46.7	**160**	71.1	**204**	95.6
−15	−26.1	**29**	−1.7	**73**	22.8	**117**	47.2	**161**	71.7	**205**	96.1
−14	−25.6	**30**	−1.1	**74**	23.3	**118**	47.8	**162**	72.2	**206**	96.7
−13	−25.0	**31**	−0.6	**75**	23.9	**119**	48.3	**163**	72.8	**207**	97.2
−12	−24.4	**32**	0.0	**76**	24.4	**120**	48.9	**164**	73.3	**208**	97.8
−11	−23.9	**33**	0.6	**77**	25.0	**121**	49.4	**165**	73.9	**209**	98.3
−10	−23.3	**34**	1.1	**78**	25.6	**122**	50.0	**166**	74.4	**210**	98.9
−9	−22.8	**35**	1.7	**79**	26.1	**123**	50.6	**167**	75.0	**211**	99.4
−8	−22.2	**36**	2.2	**80**	26.7	**124**	51.1	**168**	75.6	**212**	100.0
−7	−21.7	**37**	2.8	**81**	27.2	**125**	51.7	**169**	76.1	**213**	100.6

Fahrenheit (°F)	Celsius (°C)	Fahrenheit (°F)	Celsius (°C)	Fahrenheit (°F)	Celsius (°C)	Fahrenheit (°F)	Celsius (°C)	Fahrenheit (°F)	Celsius (°C)	Fahrenheit (°F)	Celsius (°C)
−6	−21.1	**38**	3.3	**82**	27.8	**126**	52.2	**170**	76.7	**214**	101.1
−5	−20.6	**39**	3.9	**83**	28.3	**127**	52.8	**171**	77.2	**215**	101.7
−4	−20.0	**40**	4.4	**84**	28.9	**128**	53.3	**172**	77.8	**216**	102.2
−3	−19.4	**41**	5.0	**85**	29.4	**129**	53.9	**173**	78.3	**217**	102.8
−2	−18.9	**42**	5.6	**86**	30.0	**130**	54.4	**174**	78.9	**218**	103.3
−1	−18.3	**43**	6.1	**87**	30.6	**131**	55.0	**175**	79.4	**219**	103.9
0	−17.8	**44**	6.7	**88**	31.1	**132**	55.6	**176**	80.0	**220**	104.4
1	−17.2	**45**	7.2	**89**	31.7	**133**	56.1	**177**	80.6		
2	−16.7	**46**	7.8	**90**	32.2	**134**	56.7	**178**	81.1		
3	−16.1	**47**	8.3	**91**	32.8	**135**	57.2	**179**	81.7		

Oven temperatures and UK gas marks

Gas marks are conventional UK oven settings and are approximate.

Fahrenheit (°F)	Celsius (°C)	Gas mark
250	121	—
275	135	1
300	149	2
325	163	3
350	177	4
375	191	5
400	204	6
425	218	7
450	232	8
475	246	9
500	260	—

Sources and method

- **BIPM SI Brochure, 9th edition** — Definitions of the SI units, including the kelvin (www.bipm.org/en/publications/si-brochure)
- **NIST Special Publication 811** — Guide for the Use of the International System of Units (www.nist.gov/pml/special-publication-811)

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