

**Table 1-41. SURFACE TENSION OF WATER
AND OF ALCOHOL SOLUTIONS***

In Contact with Air

PURE WATER

Temperature		Surface tension, dynes/cm	Temperature		Surface tension, dynes/cm
°C	°F		°C	°F	
-8	17.6	77.0	25	77.	72.0
-5	23.	76.4	30	86.	71.2
0	32.	75.6	40	104.	69.6
5	41.	74.9	50	122.	67.9
10	50.	74.2	60	140.	66.2
15	59.	73.5	70	158.	64.4
18	64.4	73.1	80	176.	62.6
20	68.	72.8	100	212.	58.9

ALCOHOL SOLUTIONS

Temperature		Surface tension, dynes/cm			
°C	°F	Ethyl alcohol		Methyl alcohol	
		% by volume	Surface tension	% by volume	Surface tension
20	68	10		10	59.0
30	86	10		10	57.3
40	104	10	48.3	10	
50	122	10	46.8	10	55.0
20	68	25		25	46.4
30	86	25		25	45.3
40	104	25	35.1	25	
50	122	25	34.0	25	43.2
20	68	60	27.6	60	33.0
30	86	60		60	32.3
40	104	60	26.2	60	
50	122	60	25.5	60	30.8
20	68	80	24.9	80	27.3
30	86	80		80	26.5
40	104	80	23.4	80	
50	122	80	22.6	80	25.0
20	68	100	22.3	100	22.6
30	86	100	21.5	100	21.6
40	104	100		100	
50	122	100		100	19.5

*Adapted from: "CRC Handbook of Chemistry and Physics", 50th ed., R.C. Weast, Ed., The Chemical Rubber Co., 1969.

REFERENCES

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