

Substance: R1243zf

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Table Measured capillary constant and surface tension for R1234ze(Z)

Date	Temperature (ITS-90)	Vapor density	Liquid density	Capillary constant	Surface tension	Measurement uncertainty
-	$T / [K]$	$\rho_V / [kg/m^3]$	$\rho_L / [kg/m^3]$	$a^2 / [mm^2]$	$\sigma / [mN/m]$	$U\sigma / [mN/m]$
series1	298.97	27.55	975.62	1.72	7.47	0.21
	308.68	36.12	945.26	1.50	6.22	0.20
	318.04	46.50	913.85	1.33	5.19	0.19
series2	303.99	31.73	960.18	1.61	6.84	0.20
	273.50	12.65	1047.34	2.20	10.63	0.22
	277.58	14.45	1036.50	2.12	10.10	0.22
	288.18	20.09	1007.24	1.93	8.80	0.21
	322.35	52.13	898.55	1.28	4.89	0.18
	332.81	68.61	858.60	1.06	3.70	0.17
	343.54	91.12	812.06	0.85	2.62	0.16
	352.22	115.70	768.10	0.66	1.78	0.14

Kondou, C., Nagata, R., Nii, N., Koyama, S., Higashi, Y., 2015. Surface tension of low GWP refrigerants R1243zf, R1234ze(Z), and R1233zd(E). *Int. J. Refrig.* 53, 80789. doi:10.1016/j.ijrefrig.2015.01.005

$$\sigma = 0.05330(1 - T/376.93)^{1.247} \text{ [N m}^{-1}\text{]} \quad \text{for R1243zf}$$

