

Surface Energy Data for Polytrifluoroethylene, CAS # 24980-67-4

Source ^(a)	Mst. Type ^(b)	Data ^(c)	Comments ^(d)
Ellison, 1954 ⁽⁸⁾	Critical ST	$\gamma_c = 22 \text{ mJ/m}^2$; 20°C	Various test liquids.
Shafrin, 1952 ⁽¹⁶¹⁾	Contact angle	$\theta_W^Y = 92^\circ$; no temp cited	
Shafrin, 1963 ⁽²⁰¹⁾	Contact angle	$\gamma_s = 23.9 \text{ mJ/m}^2$ ($\gamma_s^d = 19.9$, $\gamma_s^p = 4.0$); no temp cited	Test liquids not known.
Kitazaki, 1972 ⁽¹⁹¹⁾	Contact angle	$\gamma_s = 31.2 \text{ mJ/m}^2$ ($\gamma_s^d = 22.1$, $\gamma_s^p = 9.1$); no temp cited	Various test liquids; original results split polar component into hydrogen- and non-hydrogen bonding parameters.
Wu, 1979 ⁽⁴⁵⁾	Contact angle	$\gamma_s = 23.9 \text{ mJ/m}^2$; 20°C	Test liquids not known, by geometric mean equation.
Wu, 1979 ⁽⁴⁵⁾	Contact angle	$\gamma_s = 27.3 \text{ mJ/m}^2$ ($\gamma_s^d = 24.1$, $\gamma_s^p = 3.2$); 20°C	Test liquids not known, by harmonic mean equation.
Wu, 1979 ⁽⁴⁵⁾	Contact angle	$\gamma_c = 29.5 \text{ mJ/m}^2$; 20°C	Test liquids not known, calculated by the equation of state method.
Morra, 1999 ⁽¹³⁴⁾	Contact angle	$\gamma_s = 25.4 \text{ mJ/m}^2$ ($\gamma_s^{LW} = 23.1$, $\gamma_s^{AB} = 2.3$, $\gamma_s^+ = 1.8$, $\gamma_s^- = 0.7$); no temp cited	Test liquids not known; acid-base analysis based on reference values for water of $\gamma^+ = 48.5 \text{ mJ/m}^2$ and $\gamma^- = 11.2 \text{ mJ/m}^2$.
Chang, 2000 ⁽¹⁶²⁾	Contact angle	$\gamma_s = 24.8 \text{ mJ/m}^2$; no temp cited	
Kwok, 2000 ⁽¹⁶⁶⁾	Contact angle	$\gamma_c = 28.1 \text{ mJ/m}^2$; no temp cited	Re-calculated by equation of state method from data produced by Ellison, 1954 ⁽⁸⁾ .
Van Krevelen, 1976 ⁽⁸⁵⁾	Calculated	$\gamma_s = 29 \text{ mJ/m}^2$; no temp cited	Calculated from parachor parameter.