

Surface Energy Data for PAN: Polyacrylonitrile, CAS # 25014-41-9

Source ^(a)	Mst. Type ^(b)	Data ^(c)	Comments ^(d)
Lee, 1968 ⁽¹³¹⁾	Critical ST	$\gamma_c = 44 \text{ mJ/m}^2$; no temp cited	Test liquids: water, glycerol, formamide, alcohols, and long-chain polyglycols.
Wu, 1982 ⁽¹⁸⁾	Critical ST	$\gamma_c = 50 \text{ mJ/m}^2$; 20°C	Test liquids not known.
Liu, 2006 ⁽⁵⁵⁾	Contact angle	$\gamma_s^p = 14.6 \text{ mJ/m}^2$; temp not known	Test liquids not known; tests performed on polymer fibers.
Lee, 1968 ⁽¹³¹⁾	Calculated	$\gamma_s = 39 \text{ mJ/m}^2$; no temp cited	Calculated from glass temperature of 378K.
Wu, 1968 ⁽¹⁸²⁾	Calculated	$\gamma_s = 44 \text{ mJ/m}^2$; 20°C	Calculated from molecular constitution.
Pritykin, 1986 ⁽¹⁹⁹⁾	Calculated	$\gamma_s = 54.1 \text{ mJ/m}^2$; no temp cited	Calculated from cohesion parameters and monomer refractometric characteristics, equation 1.
Pritykin, 1986 ⁽¹⁹⁹⁾	Calculated	$\gamma_s = 49.9 \text{ mJ/m}^2$; no temp cited	Calculated from cohesion parameters and monomer refractometric characteristics, equation 2.