

Surface Energy Data for PEMA: Poly(ethyl methacrylate), CAS #9003-42-3

Source ^(a)	Mst. Type ^(b)	Data ^(c)	Comments ^(d)
Lee, 1968 ⁽¹³¹⁾	Critical ST	$\gamma_c = 33 \text{ mJ/m}^2$; no temp cited	Test liquids: water, glycerol, formamide, alcohols, and long-chain polyglycols.
Kamagata, 1974 ⁽³⁰¹⁾	Critical ST	$\gamma_c = 31.5 \text{ mJ/m}^2$; 20°C	Test liquids not known.
Kutsch, 1993 ⁽¹⁰²⁾	Critical ST	$\gamma_c = 33 \text{ mJ/m}^2$; no temp cited	Test liquids not known.
Iyengar, 1996 ⁽²⁵⁸⁾	Contact angle	$\gamma_s = 33.6 \text{ mJ/m}^2$; no temp cited	Test liquids not known.
Kwok, 2000 ⁽⁵⁷⁾	Contact angle	$\gamma_c = 33.6 \text{ mJ/m}^2$; no temp cited	Four unknown test liquids; surface tension calculated by equation of state approach.
Wu, 1971 ⁽⁴¹⁾	From polymer melt	$\gamma_s = 35.9 \text{ mJ/m}^2$; 20°C	Direct measurement of polymer melt extrapolated to 20°C. $M_v = 5200$.
Wu, 1968 ⁽¹⁸²⁾	Calculated	$\gamma_s = 33 \text{ mJ/m}^2$; 20°C	Calculated from molecular constitution.
Sewell, 1971 ⁽¹⁹³⁾	Calculated	$\gamma_s = 29.0 \text{ mJ/m}^2$; no temp cited	Calculated from parachor and cohesive energy.
Pritykin, 1986 ⁽¹⁹⁹⁾	Calculated	$\gamma_s = 35.3 \text{ mJ/m}^2$; no temp cited	Calculated from cohesion parameters and monomer refractometric characteristics, equation 1.
Pritykin, 1986 ⁽¹⁹⁹⁾	Calculated	$\gamma_s = 35.6 \text{ mJ/m}^2$; no temp cited	Calculated from cohesion parameters and monomer refractometric characteristics, equation 2.
Surface-tension.de, 2007 ⁽¹¹⁰⁾	Unknown	$\gamma_s = 35.9 \text{ mJ/m}^2$ ($\gamma_s^d = 26.9$, $\gamma_s^p = 9.0$); 20°C	No details available.