# Surface Energy Data for PnBMA: Poly(*n*-butyl methacrylate), CAS # 25608-33-7

| Source[(a)] | Mst. Type[(b)] | Data[(c)] | Comments[(d)] |
|---|---|---|---|
| Wu, 1968[(182)] | Critical ST | $\gamma_c$ = 32 mJ/m$^2$; 20$^o$C | Test liquids not known. |
| Wu, 1971[(29)] | Contact angle | $\theta_W^{\ Y}$ = 91$^o$; 20$^o$C | |
| Wu, 1971[(29)] | Contact angle | $\gamma_s$ = 33.3 mJ/m$^2$ ($\gamma_s^{\ d}$ = 31.3, $\gamma_s^{\ p}$ = 2.0); 20$^o$C | Test liquids: water and diiodomethane, by geometric mean equation. |
| Wu, 1971[(29)] | Contact angle | $\gamma_s$ = 34.6 mJ/m$^2$ ($\gamma_s^{\ d}$ = 28.4, $\gamma_s^{\ p}$ = 6.2); 20$^o$C | Test liquids: water and diiodomethane, by harmonic mean equation. |
| Chapman, 1995[(259)] | Contact angle | $\gamma_s$ = 28.8 mJ/m$^2$; no temp cited | Test liquids not known. |
| Kwok, 2000[(166)] | Contact angle | $\gamma_c$ = 28.8 mJ/m$^2$; no temp cited | Re-calculated by equation of state method from data produced by Kwok, 1998[(168)]. |
| Kwok, 2000[(166)] | Contact angle | $\gamma_c$ = 28.5 mJ/m$^2$; no temp cited | Re-calculated by alternate equation of state method from data produced by Kwok, 1998[(168)]. |
| Wu, 1970[(35)] | From polymer melt | $\gamma_s$ = 31.3 mJ/m$^2$ ($\gamma_s^{\ d}$ = 25.0, $\gamma_s^{\ p}$ = 6.3); 20$^o$C | Direct measurement of polymer melt extrapolated to 20$^o$C. |
| Wu, 1970[(35)] | From polymer melt | $\gamma_s$ = 31.2 mJ/m$^2$ ($\gamma_s^{\ d}$ = 26.3, $\gamma_s^{\ p}$ = 4.9); 20$^o$C | Measurement by pendant drop of polymer melt extrapolated to 20$^o$C; polarity calculated from interfacial tension with PE by harmonic mean. $M_v$ = 37,000. |
| Wu, 1971[(29)] | From polymer melt | $\gamma_s$ = 31.2 mJ/m$^2$ ($\gamma_s^{\ d}$ = 25.5, $\gamma_s^{\ p}$ = 5.7); 20$^o$C | Measurement by pendant drop of polymer melt extrapolated to 20$^o$C; polarity calculated from interfacial tension with PE by geometric mean equation. |
| Wu, 1968[(182)] | Calculated | $\gamma_s$ = 32 mJ/m$^2$; 20$^o$C | Calculated from molecular constitution. |
| Wu, 1970[(35)] | Calculated | $\gamma_s$ = 38.1 mJ/m$^2$; 20$^o$C | Calculated from parachor and molecular weight. |
| Wu, 1982[(18)] | Calculated | $\gamma_s$ = 34.0 mJ/m$^2$; 20$^o$C | Calculated from cohesive energy density and solubility parameters. |
| Van Ness, 1992[(186)] | Calculated | $\gamma_s$ = 30.8 mJ/m$^2$; 20$^o$C | Calculated molten surface tension value, extrapolated to 20$^o$C. |
| Pritykin, 1986[(199)] | Calculated | $\gamma_s$ = 36.5 mJ/m$^2$; no temp cited | Calculated from cohesion parameters and monomer refractometric characteristics, equation 1. |
| Pritykin, 1986[(199)] | Calculated | $\gamma_s$ = 35.3 mJ/m$^2$; no temp cited | Calculated from cohesion parameters and monomer refractometric characteristics, equation 2. |