

### Surface Energy Data for Hexatriacontane, CAS #630-06-8

Source <sup>(a)</sup>	Mst. Type <sup>(b)</sup>	Data <sup>(c)</sup>	Comments <sup>(d)</sup>
Fox, 1952 <sup>(11)</sup> Fox, 1952 <sup>(11)</sup>	Critical ST Contact angle	$\gamma_c = 21 \text{ mJ/m}^2$ ; no temp cited $\theta_W^Y = 111^\circ$ ; 20°C	Test liquids not known. Crystal platelets grown in pure <i>n</i> -hexane and stored under N <sub>2</sub> until tested.
Hellwig, 1968 <sup>(164)</sup> Clouet, 1994 <sup>(114)</sup>	Contact angle Contact angle	$\theta_W^Y = 105.3^\circ$ ; 25°C $\theta_W^A = 109^\circ$ ; 23°C	Crystallized in distilled hexane and stored under argon until tested.
Shafrin, 1963 <sup>(201)</sup>	Contact angle	$\gamma_s = 19.1 \text{ mJ/m}^2$ ( $\gamma_s^d = 18.9$ , $\gamma_s^p = 0.2$ ); no temp cited	Test liquids not known.
Hellwig, 1968 <sup>(164)</sup> Kitazaki, 1972 <sup>(191)</sup>	Contact angle Contact angle	$\gamma_s = 19.5 \text{ mJ/m}^2$ ; 25°C $\gamma_s = 20.6 \text{ mJ/m}^2$ ( $\gamma_s^d = 20.6$ , $\gamma_s^p = 0.0$ ); no temp cited	Test liquids not known. Various test liquids; original results split polar component into hydrogen- and non-hydrogen bonding parameters.
Wu, 1979 <sup>(45)</sup> Wu, 1979 <sup>(45)</sup> Wu, 1979 <sup>(45)</sup>	Contact angle Contact angle Contact angle	$\gamma_s = 19.1 \text{ mJ/m}^2$ ; 20°C $\gamma_s = 23.6 \text{ mJ/m}^2$ ; 20°C $\gamma_c = 23.0 \text{ mJ/m}^2$ ; 20°C	Test liquids not known, by geometric mean equation. Test liquids not known, by harmonic mean equation. Test liquids not known; calculated by the equation of state method.
Spelt, 1996 <sup>(177)</sup>	Contact angle	$\gamma_c = 19.8 \text{ mJ/m}^2$ ; 20°C	Re-calculated by equation of state method from data produced by Hellwig, 1968 <sup>(164)</sup> .
Wang, 1997 <sup>(260)</sup> Della Volpe, 2000 <sup>(163)</sup> Kwok, 2000 <sup>(166)</sup>	Contact angle Contact angle Contact angle	$\gamma_s = 20.4 \text{ mJ/m}^2$ ; no temp cited $\gamma_s = 20.5 \text{ mJ/m}^2$ ; no temp cited $\gamma_c = 19.6 \text{ mJ/m}^2$ ; no temp cited	Test liquids not known. Re-calculated from data produced by Hellwig, 1968 <sup>(164)</sup> . Re-calculated by equation of state method from data produced by Fox, 1952 <sup>(11)</sup> .
Kwok, 2000 <sup>(166)</sup>	Contact angle	$\gamma_c = 20.3 \text{ mJ/m}^2$ ; no temp cited	Re-calculated by equation of state method from literature data.
Kwok, 2000 <sup>(166)</sup>	Contact angle	$\gamma_c = 19.7 \text{ mJ/m}^2$ ; no temp cited	Re-calculated by alternate equation of state method from literature data.
Wu, 1989 <sup>(273)</sup>	From polymer melt	$\gamma_s = 31.4 \text{ mJ/m}^2$ ( $\gamma_s^d = 31.4$ , $\gamma_s^p = 0.0$ ); 20°C	Direct measurement of polymer melt extrapolated to 20°C. M=507.
Wu, 1979 <sup>(45)</sup>	Calculated	$\gamma_s = 31.4 \text{ mJ/m}^2$ ; 20°C	Calculated from liquid homologs.