Slightly viscous liq. Sweet taste. **Poisonous! Do not swallow!** Considerably hygroscopic: Absorbs twice its weight of water at 100% relative humidity. \( d^0 \ 1.1274 \ , \ d^{10} \ 1.1204 \ , \ d^{20} \ 1.1135 \ , \ d^{30} \ 1.1065 \). One gallon weighs 9.3 lbs.

Flash pt, open cup: 240°F (115°C). mp -13°. bp\(_{760} \) 197.6°; bp\(_{97} \) 140°; bp\(_{18} \) 100°; bp\(_{30} \) 70°; bp\(_{0.06} \) 20°. \( n^0_{D} 1.43312 \); \( n^0_{D} 1.43063 \). Viscosity in centipoises: 26 at 15°; 21 at 20°; 17.3 at 25°. Dielectric constant at 20° and 150 meters wavelength: 38.66 esu. Dipole moment 2.20. Spec heat (20degrees): 0.561 cal/g/°C. Heat of formation -108.1 kcal/mol. Heat of fusion 44.7 cal/g. Heat of vaporization 191 cal/g. Heat of soln -6.5 cal/g of soln at 17° when 37 parts are mixed with 63 parts H\(_2\)O (w/w). Parachor 148.9 (theory 152.2). Surface tension at 20° = 48.4 dynes/cm. Miscible with water, lower aliphatic alcohols, glycerol, acetic acid, acetone and similar ketones, aldehydes, pyridine and similar coal tar bases. Slightly sol in ether (1:200). Practically insol in benzene and its homologs, chlorinated hydrocarbons, petr ether, oils. Density and freezing point of ethylene glycol-water mixtures: 10.15% ethylene glycol by wt (\( d^{20}, \ fp \)): 1.013 , -3.5°; 20.44% ethylene glycol: 1.027 , -8°; 29.88% ethylene glycol: 1.040 , -15°; 40.23% ethylene glycol: 1.054 , -24°; 50.18% ethylene glycol: 1.067 , -36°; 58.37% ethylene glycol: 1.0770 , -48°. LD 50 in rats, guinea pigs (g/kg ): 8.54 , 6.61 orally (Smyth); in mice ( ml/kg ): 13.79 orally (Bornmann).