

- **Technical Data Sheet**

2-Ethyl Hexanol (2EH)

CAS No. 104-76-7

IUPAC name: 2-ethylhexane-1-ol

Other names: 2-ethyl-1-hexanol, 2-ethylhexyl alcohol, isooctanol, octyl alcohol

TYPICAL PHYSICAL PROPERTIES

| Parameter | Conditions | Units | Value |
|------------------------------|----------------------------|---|------------|
| Molecular weight | | g | 130.23 |
| Density | 20°C | kg/l | 0.833 |
| Boiling point | 760 mm Hg | °C | 185 |
| Azeotrope with water | 760 mm Hg | | |
| | wt % solvent | % weight | 20 |
| | Boiling point of azeotrope | °C | 99.1 |
| Flash Point | ACC | °C | 73 |
| Auto-ignition temperature | | °C | >231 |
| Flammable limits | | | |
| | Upper | % volume | 12.7 |
| | Lower | % volume | 1 |
| Viscosity | 20°C | cP | 10 |
| Refractive index | n_D^{20} | | 1.432 |
| Vapour pressure | 20°C | mbar | 0.07 |
| Relative evaporation rate | 20°C | (n-butyl acetate=1) | < 0.01 |
| Hansen solubility parameters | | | |
| | δ_d | MPa ^{1/2} (cal.cm ⁻³) ^{1/2} | 16.0 (7.8) |
| | δ_p | MPa ^{1/2} (cal.cm ⁻³) ^{1/2} | 3.3 (1.6) |
| | δ_h | MPa ^{1/2} (cal.cm ⁻³) ^{1/2} | 11.9 (5.8) |
| NHE solubility parameters | | | |
| | Solubility parameter | | 9.5 |
| | Fractional polarity | | 0.042 |
| | Hydrogen bonding index | | -18.7 |

ABBREVIATIONS

ACC Abel Closed Cup

NHE Nelson, Hemwall & Edwards

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