



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