

# TECHNICAL DATA SHEET



Property	Units	Value	Test
Acetone content density	% mass kg/l @20°C	99.5 min 0.790 min - 0.792 max	D3505
Water Content	% mass	0.3 max	D1364
Acidity	% mass as acetic acid (fixed)	0.002 max	B2 509
Appearance Non-Volatile matter	%	Clear colourless liquid 0.001 max	Visual D1353
Colour	Pt/Co scale	5 max	D1209
Distillation range (inc. Bp 56.2)	°C	1 max	D1078
Alcoholic impurities		Complies with BS limit test	BS 509 (part 2) : 1984
Alkalinity (calculated as Ammonia) Permanganate time	hours	Complies with BS limit test 2 minimum	D1614 D1363

Property	Conditions	Unit	Value
Molecular Mass			58.06
Density	20 °C	kg/litre (vacuo)	0.790
Relative Density	20 °C / 20 °C		0.7911
Coefficient of Cubical expansion	per °C		1.487x 10 <sup>-3</sup>
Change in relative density	per °C		1.14 x10 <sup>-3</sup>
Melting Point		°C	-94.7
Boiling Point	1.013 bar	°C	58.2
Change in boiling point	1013 bar	°C/mbar	0.0293
Vapour pressure	20 °C	mbar	247
Flammable limits upper lower	20 °C 20 °C	%volume %volume	13.0 2.6
Flash Point	Abel closed up	°C	-18
Auto ignition temperature		°C	465
Specific heat (liquid) Specific heat (vapour)	20 °C 20 °C	kJ/kg °C kJ/kg °C	2.18 1.28
Latent heat (of fusion) (of vaporisation)	at boiling point	kJ/kg °C kJ/kg °C	97.97 501.15
Heat of combustion	20 °C	Mj/kg	30.86
Critical Temperature		°C	235.0
Critical Pressure		bar	47
Volume Resistivity	25 °C	ohm.m	4.2 X 10 <sup>7</sup>
Thermal Conductivity	20 °C	mW/m °C	150
Dieltric constant	20 °C		21
Refractive index	20 °C	n <sup>20</sup> D	1.3591
Absolute Viscosity	20 °C	cP	0.322
Evaporation rate Relative to n-BuAc=1	21.5 °C		18.11