



## Product Information Sheet

# Sunoco Racing Methanol

The Sunoco racing methanol is produced to the highest standards possible. Its purity normally exceeds our specification of a minimum 99.85% purity.

### Typical Applications

- Oval circuit racing cars
- Racing cars
- Historic racing cars and motorcycles
- Drag racing
- Speedway
- Water injection systems

### Specifications

Purity	(min) 99.85% by wt
Water	(max) 0.1% by wt
Acidity as acetic acid	(max) 0.003% by wt
Acetone	(max) 0.003% by wt
Alkalinity as ammonia	(max) 0.0003% by wt
Distillation range	(max) 1.0C including 64.5°C
Non volatile matter	(max) 0.0010 g/100ml
Specific Gravity	@ 20°C (max) 0.7926 @ 25°C (max) 0.7889
Colour	(max) 5 APHA
Permanganate time	(min) 50 minutes at 15°C
Carbonisable substances	(max) 25 APHA
Chloride & Sulphur	To pass test
Appearance	Clear and free from suspended matter
Odour	Characteristic, free from foreign odor
Water solubility	No turbidity after one hour at 25°C when one volume of methanol is diluted with three volumes of distilled water



### Physical Properties of R racing methanol

Molecular weight (calc)		32.042
Boiling point at 760 torr		64.509°C
Temperature coefficient of pressure at 740-760 torr		0.0331 °C/torr
Vapour pressure at 25°C		0.1632 atm
Evaporation rate (n-Butyl acetate = 100)		460 by vol
Freezing point		-97.49°C
Liquid density at	15°C	0.79609 g/ml
	25°C	0.78675 g/ml
Vapour density (air – 1)		1.11
Coefficient of thermal expansion per °C		0.00117
Refractive index at 25°C		1.32663
Viscosity at 30°C		0.510 cp
Surface tension at 20°C		22.65 dynes/cm
Heat of combustion at 20°C and 1 atm		182.58 kcal/mole
Dielectric constant at 25°C		32.63
Critical pressure		78.63 atm
Explosive limits in air (approximately)		6% - 36.5% by vol
Flash point	Tag open cup	15°C
	Tag closed cup	12°C
Ignition temperature		470°C

Mixable with water and most organic liquids