

# SAXON ST-002

## DESCRIPTION

Saxon ST-002 is a C9 aromatic hydrocarbon solvent with a reduced concentration of Benzene and Benzene homologous like Xylene and Cumene.

## MAIN PROPERTIES

Property	Unit	Method	Value
Density @15°C	kg/L	ASTM D4052	0.881
Coefficient of Cubic Expansion @20°C	10 <sup>-4</sup> /°C	Calculated	9
Refractive Index @20°C	-	ASTM D1218	1.5045
Colour	Saybolt	ASTM D156	+30
Copper Corrosion (1hr @100°C)	-	ASTM D130	1
Doctor Test	-	ASTM D4952	Negative
Non Volatile Matter	mg/100ml	ASTM D1353	1
Distillation, Initial Boiling Point	°C	ASTM D86	169
Distillation, Dry Point	°C	ASTM D86	179
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	0.20
Relative Evaporation Rate (Ether=1)	-	DIN 53170	50
Antoine Constant A #	kPa, °C	-	6.74780
Antoine Constant B #	kPa, °C	-	1912.9
Antoine Constant C #	kPa, °C	-	240.330
Antoine Constants: Temperature range	°C	-	+ 20 to +160
Vapor Pressure @ 0°C	kPa	Calculated	0.06
Vapor Pressure @ 20°C	kPa	Calculated	0.25
Saturated Vapor Concentration @ 20°C	g/m <sup>3</sup>	Calculated	13
Aromatics	% m/m	GC	>99
Benzene	mg/kg	GC	< 3
Cumene	% m/m	GC	< 0.09
Xylene	% m/m	GC	< 0.09
Sulfur	mg/kg	ISO 20846	< 0.5
Flash Point	°C	IP 170	49
Lower Explosion Limit in Air	% v/v		0.6
Upper Explosion Limit in Air	% v/v		7.0





Auto Ignition Temperature	°C	ASTM E659	507
Electrical Conductivity @ 20°C	pS/m	ASTM D4308	< 10
Dielectric Constant @ 20°C	-	-	2.4
Aniline Point, Mixed	°C	ASTM D611	14
Kauri-Butanol Value	-	ASTM D1133	90
Pour Point	°C	ASTM D97	< -30
Viscosity @ 25°C	mm <sup>2</sup> /s	ASTM D445	0.9
Surface Tension @ 20°C	mN/m	Du Nouy ring	29
Hildebrand Solubility Parameter	(cal/cm <sup>3</sup> ) <sup>1/2</sup>	-	8.8
Hydrogen Bonding Index	-	-	5.0
Fractional Polarity	-	-	0.001
Heat of Vaporization at T <sub>boil</sub>	kJ/kg	-	325
Heat of Combustion (Net) @t 25°C	kJ/kg	-	42000
Specific Heat @ 20°C	kJ/kg/°C	-	1.8
Molecular Weight	g/mol	Calculated	122

(#) In the Antoine temperature range, the vapor pressure  $P$  (kPa) at temperature  $T$  (°C) can be calculated by means of the Antoine equation:  $\log P = A - B/(T+C)$

## QUALITY

Saxon ST-002 does not contain detectable quantities of polycyclic aromatics, heavy metals or chlorinated compounds.

## HAZARD INFORMATION

For detailed Hazard Information please refer to the Safety Data Sheet on [www.saxonpaints.com](http://www.saxonpaints.com)

## STORAGE HANDLING

Provided proper storage and handling precautions are taken we would expect Saxon ST-002 to be technically stable for at least 12 months. For detailed advice on Storage and Handling please refer to the Safety Data Sheet on [www.saxonpaints.com](http://www.saxonpaints.com)



## GENERAL INFORMATION

Apply all products in accordance with BS 6150: 2006 Code of practice for painting of buildings and BS 8000: Part 12: 1989 Code of practice for decorative wallcoverings and painting.

Every care is taken to ensure that all information provided on this Technical Data Sheet is accurate. Final results cannot be guaranteed by the manufacturer as it has no control over the conditions under which its products are applied.

For help or more information contact Saxon Paints or visit our website at [www.saxonpaints.com](http://www.saxonpaints.com) Before using this product please ensure you have the latest information. The information is correct at date of issue February 2022.



## WARRANTY

SAXON PAINTS warrant its title to the product, that the quality of the product conforms to Saxon Paints' specifications for such product in effect at the time of manufacture and that the product shall be delivered free of the rightful claim of any third person for infringement of any patent covering the product. This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Saxon Paints' technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. These are the only warranties that Saxon Paints makes and all other express or implied warranties, under statute or arising otherwise in law, from a course of dealing or usage of trade, including without limitation, any other warranty of fitness for a particular purpose or use, are disclaimed by Saxon Paints. Any claim under this warranty must be made by Buyer to Saxon Paints in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify Saxon Paints of such non-conformance as required herein shall bar Buyer from recovery under this warranty. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Saxon Paints' representative for approval before commencing the work.

## LIMITATIONS OF LIABILITY

The information in this document is given to the best of Saxon Paints' knowledge. The information in this sheet is intended for guidance only and is based upon laboratory tests that Saxon Paints' believes to be reliable. Saxon Paints' products are considered as semi-finished goods and as such, products are often used under conditions beyond Saxon Paints' control like the quality or condition of the substrate, or the many factors affecting the use and application of the product. The product and related information are designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. Saxon Paints' does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information. Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. Minor product variations may be implemented in order to comply with local requirements. Users should always consult Saxon Paints' for specific guidance on the general suitability of this product for their needs and specific application practices. If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

