



SPECIALTY SOLVENTS

BUSINESS SERVICES

CUSTOMER SERVICE

Call: 800-696-4240

Fax: 806-275-3585

ORDERS

Send orders to solve@p66.com

STREET ADDRESS

Phillips 66 Specialty Solvents
2331 CityWest Blvd.
Houston, TX 77042 USA

This document reports accurate and reliable information to the best of our knowledge, but our suggestions and recommendations cannot be guaranteed because the conditions of use are beyond our control. Information presented herein is given without reference to any patent questions that may be encountered in the use thereof.

Such questions should be investigated by those using this information.

Phillips 66 assumes no responsibility for the use of information presented herein and hereby disclaims all liability in regard to such use.



SPECIALTY SOLVENTS

Typical Properties



SPECIALTY SOLVENTS

Typical Properties	PENTANES			HEXANE	HEPTANES (BORGER)		ISOPARAFFINS	Test Method
	SWEENEY ISOPENTANE (1, 2)	BORGER ISOPENTANE	BORGER NORMAL PENTANE	HEXANE(S) (3)	COMMERCIAL HEPTANE	ULACH ULTRA LOW AROMATIC COMMERCIAL HEPTANE	OMS Odorless Mineral Spirits	
Distillation Range, oF@ 760 mm Hg (oC)				D-1078				ASTM D86 (Unless Indicated)
Initial Boiling Point	81 (27)	81 (27)	95 (35)	152 (67)	196 (91)	192 (88.9)	351.3 (177.4)	
10%	81 (27)	81 (27)	97 (36)	153 (67)	197 (92)	194 (90)		
50%	82 (28)	82 (28)	97 (36)	154 (68)	198 (92)	194 (90)	360.4 (182.4)	
90%	83 (28)	83 (28)	97 (36)	154 (68)	200 (93)	195 (91)		
Dry Point	84 (29)	84 (29)	97 (36)	156 (69)	203 (95)	196 (91)	391.7 (199.9)	
API Gravity @ 60 oF	95.1	94.5	92.4	77.4	71.3	72.6	54.8	ASTM D-4052
Specific Gravity of Liquid, @ 60/60 oF	0.624	0.626	0.632	0.677	0.698	0.693	0.758	ASTM D-4052
Density of Liquid @ 60 oF Lbs/Gal	5.197	5.210	5.260	5.638	5.809	5.771	6.332	ASTM D-4052
Vapor Pressure @ 100 oF, psia	20.5	20.4	15.5	5.46	2.06	2.57	0.8	ASTM D-5191 (Unless Indicated)
Flash Point, oF (oC)	<-60 (<-51)	<-60 (<-51)	<-40 (<-40)	-15 (-26)	15 (-9)	15 (-9)	134.6 (57.0)	ASTM D-56 (Unless Indicated)
Sulfur Content, ppm	<1 (D-7183)	0.1	0.1	< 1 (D-7183)	0.1	0.1	< 1.0 (4)	ASTM D-4045 (Unless Indicated)
Bromine No.	0.002	<0.001	0.04	<0.001	3	<0.005	< 0.1	ASTM D-1492
Nonvolatile Matter, mg/100 ml	0.1	0.1	0.1	0.1	0.1	0.1	< 1	ASTM D-1353
Color, Saybolt	+30	+30	+30	+30	+30	+30	30+ (D156)	ASTM D-6045
Acidity of Distillation Residue	NEUTRAL	NEUTRAL	NEUTRAL	NEUTRAL	NEUTRAL	NEUTRAL	Neutral	ASTM D-1093
Doctor Test	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE	Negative	ASTM D-4952
Kauri-Butanol Value	25	26	27	30	30	29	28	ASTM D-1133
Aniline Point, oF (oC)				147 (64)	150 (65.6)	156 (69)	184.2 (84.6)	ASTM D-611
Evaporation Rate, n-Butyl Acetate = 1	28.1	28.1	22.8	9.1	4.2	4.6	> 1.0	ASTM D-1901
Water Content, ppm	<10	<15	<15	<60	<50	<50	40	ASTM D-3401
Benzene Content, ppm	<1	<1	<1	<1	8	<1	< 1	ASTM D-3606 (Modified)
Copper Corrosion	1A	1A	1A	1A	1A	1A	1b	ASTM D-130
Aromatics, ppm	<2	<2	<2	<2		<2	< 100	Chromatography
Aromatics, Lv%					2.7			Chromatography
Purity, Lv%	99.4	99.7	99.6	62.1				Chromatography
DOT ID#	UN 1265	UN 1265	UN 1265	UN 1208	UN 1206	UN 1206	UN 1268	
DOT Hazard Class	3 Flam. Liq.	3 Flam. Liq.	3 Flam. Liq.	3 Flam. Liq.	3 Flam. Liq.	3 Flam. Liq.	3 Flam. Liq.	

Some of the uses for Phillips 66 Specialty Solvents Include:

- Adhesives
- Aerosols
- Automotive
- Catalyst
- Chemicals
- Cosmetics
- Expandable Polystyrene (EPS)
- Geothermal
- Lubricants
- Mining
- Oil Exploration and Production
- Oil Sands
- Pharmaceuticals
- Polyethylene
- Polyurethane
- Specialty Fuels
- Seed Oil Extraction
- Synthetic Rubber
- Tires

Safety. Honor. Commitment.

At Phillips 66 our values are our foundation. In addition to the corporate values, the Specialty Solvents Team conducts business within its own set of core values that includes:

- Sustainability
- Solving customer problems
- Ensuring the safety and health of our customers, our employees, our contractors, and the environment
- Getting it right the first time
- Conducting business with the highest of ethical standards

These core values are woven into our culture and represent our commitment to setting the standard of excellence in everything we do.

1. All cars are purged with Nitrogen to keep the oxygen level below 50 ppm in the head space.
2. This material is on the UNIVATION PE recommended list as one of the condensing inducing agents.
3. This material has a very narrow boiling point range and is ideal for seed oil extraction.
4. The current detection limit