



SPECIALTY SOLVENTS

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Specialty Solvents

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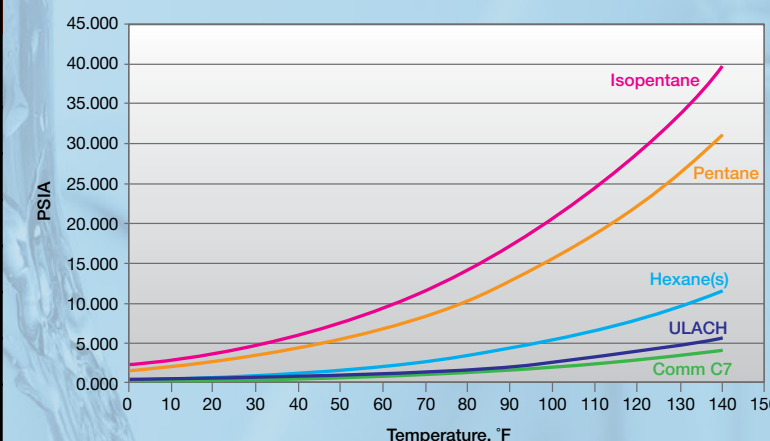
Typical Properties



SPECIALTY SOLVENTS

Typical Properties	PENTANES			HEXANE	HEPTANES		ISOPARAFFINS	TEST METHOD
	SWEENEY ISOPENTANE	BORGER ISOPENTANE	BORGER NORMAL PENTANE	HEXANE(S)	COMMERCIAL HEPTANE	ULACH ULTRA LOW AROMATIC COMMERCIAL HEPTANE	OMS ODORLESS MINERAL SPIRITS	
Distillation Range, °F @ 760 mm Hg (°C)				D-1078				ASTM D-86 (Unless Indicated)
Initial Boiling Point	81 (27)	81 (27)	95 (35)	152 (67)	196 (91)	192 (88.9)	348 (175)	
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)	357 (181)	
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)	388 (198)	
API Gravity @ 60 °F (15.6 °C)	95.1	94.5	92.4	77.4	71.3	72.6	55.1	ASTM D-4052
Specific Gravity of Liquid @ 60/60 °F (15.6/15.6 °C)	0.624	0.626	0.632	0.677	0.698	0.693	0.759	ASTM D-4052
Density of Liquid @ 60 °F (15.6 °C), lbs/gal	5.197	5.210	5.260	5.638	5.809	5.771	6.326	ASTM D-4052
Vapor Pressure @ 100 °F (37.8 °C), psia	20.5	20.4	15.5	5.5	2.1	2.6	0.8	ASTM D-5191 (Unless Indicated)
Flash Point, °F (°C)	<-60 (<-51)	<-60 (<-51)	<-40 (<-40)	-15 (-26)	15 (-9)	15 (-9)	130 (54)	ASTM D-56 (Unless Indicated)
Sulfur Content, ppm	<1 (D-7183)	0.1	0.1	<1 (D-7183)	0.1	0.1	<5	ASTM D-4045 (Unless Indicated)
Bromine No.	0.002	<0.001	0.004	<0.001	3	<0.005		ASTM D-1492
Nonvolatile Matter, mg/100 ml	0.1	0.1	0.1	0.1	0.1	0.1		ASTM D-1353
Color, Saybolt	+30	+30	+30	+30	+30	+30	+30	ASTM D-6045
Acidity of Distillation Residue	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	29	ASTM D-1133
Aniline Point, °F (°C)				147 (64)	150 (65.6)	156 (69)	183 (84)	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	<30	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	1A	ASTM D-130
AROMATICS, ppm	<2	<2	<2	<2		<2		Chromatography
AROMATICS, Lv%					2.7		<0.1	Chromatography
Purity, Lv%	99.4	99.7	99.6	62.1				Chromatography
DOT ID No.	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	

Solvent Vapor Pressure Curve



Some of the uses for Phillips 66 Specialty Solvents Include:

- Polyethylene
- Polypropylene
- Polyurethane
- Expanded and Extruded Polystyrene
- Heat Exchange Medium for Geothermal Energy Production
- Catalyst Production
- Vegetable Oil Extraction
- Adhesives
- Paints and Coatings
- Reaction Solvent
- Rubber and Tire Industry
- Starter Fluid
- Pharmaceutical Industry
- Organometallic Solvent
- Algal Oil Extraction
- Heavy Oil/Bitumen Applications