



# Environmentally-Friendly Solvents

## Typical Properties

Stepan Trade Name	Base Material	Chemical Description	CAS #	Appearance @ 25°C	Viscosity @ 25°C, cps	Color		Density @ 25°C, U.S. lbs/gal	Specific Gravity
						APHA	Gardner		
STEPOSOL® C-25	Coconut oil	Methyl caprylate/caprates	68937-83-7	Clear liquid	2	11	1	7.3	0.870
STEPOSOL® C-42	Coconut oil	Methyl laurate/Methyl myristate	111-82-0, 124-10-7	Clear liquid	7	9	1	7.3	0.870
STEPOSOL® C-48	Coconut oil	Methyl laurate	61788-59-8	Clear liquid	11	32	1	7.2	0.860
STEPOSOL® C-65	Coconut oil	Methyl palmitate/oleate	67762-38-3	Clear liquid	7	28	1	7.2	0.860
STEPOSOL® M-8-10	Coconut oil	N,N-Dimethylcaprylamide, N,N-Dimethylcapramide	1118-92-9, 14433-76-2	Clear liquid	11	8	1	7.3	0.881
STEPOSOL® M-10	Coconut oil	N,N-Dimethylcapramide	14433-76-2	Clear liquid	9	37	1	7.3	0.878
STEPOSOL® ROE-W	Canola oil	Canola methyl ester	67762-38-3	Clear liquid	10	239	2	7.3	0.876
STEPOSOL® SB-D	Soybean oil	Soya methyl ester	67784-80-9	Clear liquid	15	58	1	7.3	0.877
STEPOSOL® SB-W	Soybean oil	Soya methyl ester	67784-80-9	Clear liquid	7	320	1	7.3	0.877
STEPOSOL® SC	Soybean/corn oil	Soya methyl ester/Ethyl lactate	67784-80-9, 97-64-3	Clear liquid	10	225	1	7.9	0.946

For more information or to request a sample, contact Stepan's Technical Service Department at 1-800-745-7837 (STEP) or [techserv@stepan.com](mailto:techserv@stepan.com).

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## Typical Properties

Stepan Trade Name	Flash Point (PMCC)		Boiling Point @ 760mm HG		Cloud Point		Pour Point		Melting Point		Freeze Point	
	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
STEPOSOL® C-25	78	173	200	392	-35.4	-31.7	-37.0	-34.6	-42.1	-43.7	-49.3	-56.7
STEPOSOL® C-42	>94	>201	274	525	-3.8	25.2	-4.0	24.8	-5.0	23.0	-9.4	15.0
STEPOSOL® C-48	>94	>201	276	529	-1.7	28.9	-2.4	27.7	-2.8	26.8	-6.0	21.2
STEPOSOL® C-65	>94	>201	305	581	15.6	60.1	14.3	57.7	14.0	57.2	10.0	50.0
STEPOSOL® M-8-10	118	245	260	500	<-20.0	<-4.0	-19.6	-3.3	-17.0	1.4	-34.0	-29.2
STEPOSOL® M-10	120	248	278	532	<-14.0	<6.8	-14.0	6.8	-2.5	27.5	-17.0	1.4
STEPOSOL® ROE-W	>94	>201	361	682	-2.3	27.9	-13.8	7.2	-10.9	12.5	-24.5	-12.1
STEPOSOL® SB-D	>94	>201	341	646	-2.1	28.2	-2.7	27.1	-0.6	30.9	-7.7	18.1
STEPOSOL® SB-W	>94	>201	352	665	-1.1	30.0	-1.6	29.1	0.1	32.1	-5.7	21.7
STEPOSOL® SC	69	156	163	325	-2.7	27.1	-6.0	21.2	-4.7	23.6	-15.1	4.8

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## Typical Properties

Stepan Trade Name	Refractive Index @ 20°C	Surface Tension (neat), dynes/cm	Solubility			
			Water	Methanol	Kerosene	Xylene
STEPOSOL® C-25	1.420	27.7	Insoluble	Soluble	Soluble	Soluble
STEPOSOL® C-42	1.430	29.4	Insoluble	Soluble	Soluble	Soluble
STEPOSOL® C-48	1.437	29.6	Insoluble	Soluble	Soluble	Soluble
STEPOSOL® C-65	1.445	30.8	Insoluble	Soluble	Soluble	Soluble
STEPOSOL® M-8-10	1.452	30.9	Partially soluble	Soluble	Soluble	Soluble
STEPOSOL® M-10	1.453	31.1	Partially soluble	Soluble	Soluble	Soluble
STEPOSOL® ROE-W	1.456	31.4	Insoluble	Soluble	Soluble	Soluble
STEPOSOL® SB-D	1.458	31.5	Insoluble	Soluble	Soluble	Soluble
STEPOSOL® SB-W	1.457	31.5	Insoluble	Soluble	Soluble	Soluble
STEPOSOL® SC	1.435	30.1	Insoluble	Soluble	Soluble	Soluble

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# Environmentally-Friendly Solvents

## Typical Properties

Stepan Trade Name	Kauri-Butanol Value	VOC% (CARB 310)	LVP-VOC	HAP	BCI*	Biodegradability
STEPOSOL® C-25	112	89	N	N	90	B
STEPOSOL® C-42	112	13	Y	N	93	B
STEPOSOL® C-48	75	25	Y	N	93	B
STEPOSOL® C-65	68	0.5	Y	N	94	B
STEPOSOL® M-8-10	>300	33	Y	N	82	R
STEPOSOL® M-10	>300	15	Y	N	83	R
STEPOSOL® ROE-W	55	0.60	Y	N	95	B
STEPOSOL® SB-D	59	0.03	Y	N	93	B
STEPOSOL® SB-W	38	0.50	Y	N	95	B
STEPOSOL® SC	318	50.02	N	N	98	B

**VOC% (CARB 310)** refers to California Air Resources Board Method 310 for VOC determination.

**LVP-VOC: Low vapor pressure VOC.** California's OTC Model Rule and National VOC Standards exempt LVP-VOC from VOC limit requirements.

**HAP: Hazardous Air Pollutant** as listed by U.S.EPA under the 1990 Clean Air Act.

**\*BCI (Biorenewable Carbon Index):** Number of natural carbons (plant, animal or marine based) divided by the total number of carbons, multiplied by 100.

**B** indicates that the product is biodegradable; contact Stepan Company for more information.

**R** indicates that the product is readily biodegradable, where 60%-70% of the substance biodegrades to carbon dioxide and water in 28 days and meets the 10-day window.

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