



# FlexaTrac<sup>TM</sup>

SOLVENTS

# FlexaTrac

D M E s | D M S | D M G | D M A

	FlexaTrac-DME-100	FlexaTrac-DME-200	FlexaTrac-DME-300	FlexaTrac-DMS-400	FlexaTrac-DMG-500	FlexaTrac-DMA-600
<b>Chemical Properties</b>						
Dimethyl Succinate, wt. %	17-25	1.0 max.	1.0 max.	98.5 min.	1.0 max.	1.0 max.
Dimethyl Glutarate, wt. %	59-73	72-76	8 –12	1.0 max.	99.0 min.	1.0 max.
Dimethyl Adipate, wt. %	10-14	23-27	87-91	1.0 max.	1.0 max.	99.0 min.
Acid Content, mg KOH/g, max.	0.3	0.1	0.1	0.1	0.1	0.1
Water Content, wt. %, max.	0.1	0.1	0.1	0.1	0.1	0.1
Methanol Content, wt. %, max.	0.2	0.1	0.1	0.1	0.1	0.1
Color, APHA, max.	15	15	15	15	15	15
<b>Physical Properties</b>						
Molecular Weight	159	163	172	146	160	174
Distillation Range, °C	195-216	203-220	211-229	192-201	203-214	216-230
Density, #/gal, @ 25°C	9.10	8.98	8.83	9.28	9.03	8.82
Specific Gravity @ 25°C	1.091	1.076	1.058	1.112	1.082	1.057
Viscosity, cps, @ 25°C	3.88	3.31	3.71	3.91	3.66	4.33
Solubility in Water, wt. %	5.5	4.3	2.6	10.3	5.1	2.1
Water Solubility in DMEs, wt. %	3.6	3.2	2.8	4.0	2.9	2.9
Freezing Point, °C	-40.0	-42.4	2.8	16.8	-37.5	9.4
Flash Point, °F (Pensky-Martin cc)	212	226	235	201	224	255
Flash Point, °C (Pensky-Martin cc)	100	108	113	94	107	124
Surface Tension, dynes/cm	35.3	35	32.5	34.6	35.6	35.1
Electrical Resistance, megohms	1.3	1.9	3.0	1.3	2.3	5.0
Vapor Pressure, @ 20°C (Torr)	0.06	0.04	0.02	0.12	0.05	0.01

\*NOTE: Product specifications are subject to change without notice. Please write or call us for our current product specifications.

## Key Attributes

- Low volatile organic compound (VOC) content
- Readily biodegradable
- Clear, colorless liquid
- Mild to no odor
- Excellent polymer solvency
- Controlled evaporation rate
- Miscibility with most organic solvents

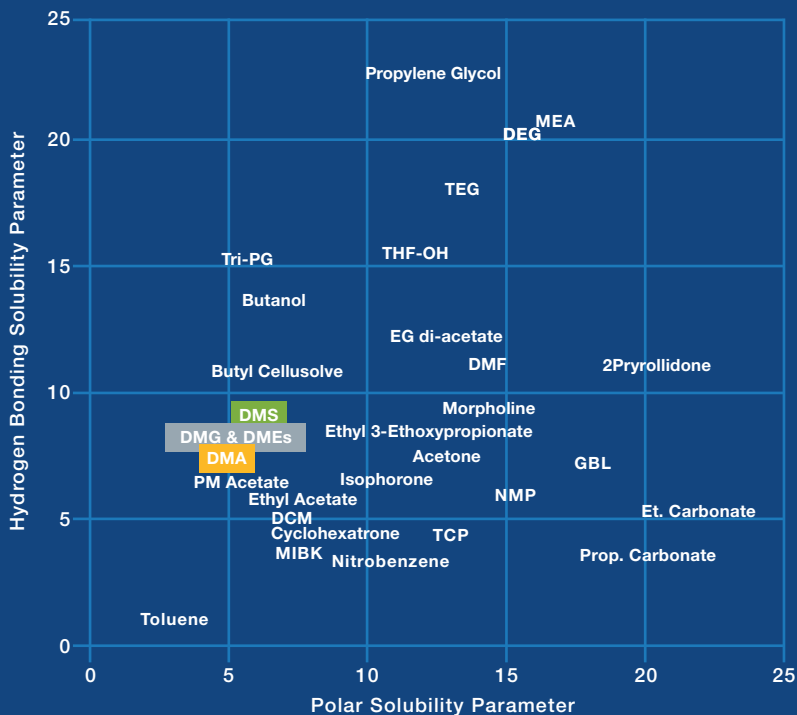
## Key Applications

- **Paints & Coatings:**  
Solvent for water-reducible and solvent-based latex coatings
- **Cleaners & Strippers:**  
Remove grease, lubricating oils, metal working fluids and fines from metal surfaces
- **Scent & Pigment:**  
Carrier solvent
- **Oilfield Chemicals:**  
Solvent and emulsifier
- **Solvent for Resins:**  
Polyurethane/Acrylics in adhesives and sealants
- **Leather Industry Solvent:**  
Dyeing and aiding in film formation and flow
- **Printing Inks:**  
Solvents of printing inks – good alternatives to perceived non-environmentally friendly products such as acetates, glycol ethers, methyl ethyl ketone and other low-boiling alcohols

### Replacement for perceived HAPS solvents:

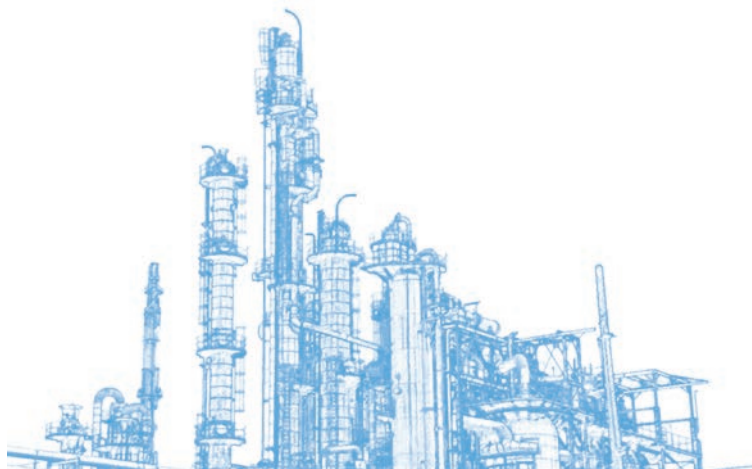
- Acetates
- Acetone
- Glycol ethers
- Dichloromethane (DCM)
- N-methyl-2-Pyrrolidones (NMP)

### Hansen Solubility Parameters FlexaTrac vs. Common Solvents



	FlexaTrac-DMEs	FlexaTrac-DMS	FlexaTrac-DMG	FlexaTrac-DMA
<b>Resin Types &amp; Compatibility</b>				
Epoxy	+++*	+++	+++	+++
Acrylic	+++	+++	++	++
Polyester	+++	+++	++	++
Phenolics	++	+++	++	+
Melamine-formaldehyde resin	+++	+++	++	+
PVBs (Polyvinyl Butyrals)	++	++	+	+
<b>Solvent Types &amp; Compatibility</b>				
Alcohols, Esters & Ketones	+++*	+++	+++	+++
Hydrocarbons/Aromatics**	+++	+++	+++	+++
Common Halogenated Solvents	+++	+++	+++	+++
Water	+	+	+	+
Glycol Ethers, Carbonates & Acetates	+++	+++	+++	+++

\* Degree of compatibility (three +'s highly compatible and gives clear blend solution and + means low to no compatibility or hazy blend solution)  
\*\* Except Heptane



# About Ascend

Headquartered in Houston, Texas, Ascend Performance Materials is one of the world's largest fully-integrated producers of nylon 6,6 resin. As the world's only large-scale converter of acrylonitrile to adiponitrile, Ascend is uniquely positioned for the production of dozens of amines, acids, esters and intermediates used in a variety of end applications. Our integrated manufacturing processes allow us to produce a wide range of specialty chemicals. Ascend's specialty chemicals are used in hundreds of brand-name adhesives, coatings, cleansers and detergents. Ascend manufactures chemicals at its facilities in Texas, Alabama and Florida.

For more information on our specialty chemicals visit us at [www.ascendmaterials.com/specialtychemicals](http://www.ascendmaterials.com/specialtychemicals)

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