



Novolyte Solvents **GO GREEN!**

Novolyte offers a unique portfolio of high-performance aprotic oxygenated solvents – with a broad range of physical properties with significant advantages over other solvents:

- ◆ **Non-toxic**, low odor
- ◆ Including **Very Low VOC Non-HAP's**
- ◆ **Improved safety** in handling
- ◆ **High Solvency**
- ◆ **Wide range** of boiling points
- ◆ **Wide range** of water solubility

Boiling Points Above 250 °C



NEW! Novolyte Higlyme
 $C_{10}H_{21}O(CH_2CH_2O)_6OCH_3$

Non-VOC's in Europe
 Need a high-boiling point?
 Want to eliminate the odor of Texanol?
 Reformulating to even lower VOC requirements?

	Boiling Point °C	Tox Profile	Odor	Applications	% in H ₂ O	% H ₂ O in
Butyl Diglyme	256	Good	Slight ether	Reaction solv Gold recovery	0.3	1.4
Tetraglyme	>275	Good	v. slight	Reaction solv	Complete	Complete
Polyglyme	>300	Excellent	v. slight	Inks, Acid-gas scrubbing	Complete	Complete
Higlyme	>300	Excellent	v. slight	Lubricant Emulsifier	Complete	Complete
Comparator: Texanol	254	Good	Strong ester	Coatings coaleser	0.1	3



NOVOLYTE HIGLYME:
 A non-VOC by GC method...
 And 96% non-VOC by Method 24
 Strong solvency and lubricity
 Great for low-odor cleaning/degreasing
 100% Water Soluble



Polyglyme – for stabilizing emulsions
 Acid-gas scrubbing – strong for CO₂,r with high selectivity to achieve ultra-low H₂S levels!
 Long used for Selexol™ process
 Low energy consumption compared to amine-scrubbing process

Moderate Boiling Points 175 to 225 °C

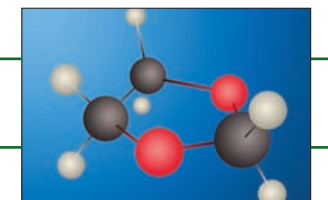


NEW! Novolyte Proglyme
 $CH_3O(CH_2CHO)_2CH_3$

Need a moderately high boiling point?
 High solvency to stabilize a water-borne system?
 Wish to replace NMP, aromatic, or halogenated solvent in coatings for adhesives?

	Boiling Point °C	Tox Profile	Odor	Applications	% in H ₂ O	% H ₂ O in
Proglyme	175	Excellent	Slight ether	Ink, NMP replacement, Polyurethanes	35	4.5
Ethyl diglyme	189	Good	Slight ether	Ink stabilizer Adhesives	Complete	Complete
Glycerol formal	191-195	Excellent	v. slight	Deicer Coatings	Complete	Complete
Comparator NMP	203	Sara 313 Prop 65	Slight amine	Polyurethane	Complete	30%

Lower Boiling Points



Novolyte Acetals

	Boiling Point °C	Tox Profile	Odor	Applications	% in H ₂ O	% H ₂ O in
1,3-Dioxolane (see Novolyte brochure for more information)	75	Excellent	Ether	Cleaning, photoresits, seaming,	Complete	Complete
4-Methyl-1,3-Dioxolane NEW!	84	Excellent	Ether	Ink stabilizer Adhesives	Complete	Complete
Acetone Comparator	56	Good	Ether	Gel coats	Complete	Complete
Tetrahydrofuran Comparator	66	Good	Ether	Polymer solutions	Complete	Complete

Applications of Novolyte Solvents



Novolyte 1,3-Dioxolane - The preferred seaming solvent for shrink wrap PET film

Excellent graphics with fast application for fast-fill bottling

Dioxolane proved better than THF for PET Seaming
With excellent tox profile, unlike NMP

Solvent	Right after seaming		After aging for a day	
	Tensile Test	Peel Test	Tensile Test	Peel Test
THF	Poor	Poor	Poor	Poor
DXL	Good	Poor	Good	Good
NMP	Good	Good	Good	Good

Better seam strength than THF after two days.
Allows the use of high-shrink PET for use of film around narrow neck and wide bottle.



High Performing High Solvency,
wide range of boiling points for:
Low-odor inks with brilliant and
lasting colors

Water-borne coatings

High performance solvent-borne
formulations

Sealants and caulks

Adhesives and seaming solvent

Industrial cleaning and degreasing

Reaction solvents for fine and

pharma applications



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