



Glass Cleaner  
(Typical Starting Point Formulation)

Component	#1 Percentage (%)	#2 Percentage (%)	#3 Percentage (%)
DOWANOL PnB	3.5 - 4.0	3.0 - 3.5	
DOWANOL PM		1.5 - 2.0	
DOWANOL PnP			3.2 - 5.0
Monoethanolamine	0.2 - 0.4	0.2 - 0.4	0.2 - 0.4
Anionic Surfactant	0.15 - 0.3	0.15 - 0.3	0.15 - 0.3
Citric Acid	pH adj.	pH adj.	pH adj.
Perfume	approx. 0.1	approx. 0.1	approx. 0.1
Dye	as desired	as desired	as desired
Water	up to 100	up to 100	up to 100

Note:

- 10 > pH < 11
- Anionic surfactant: DOWFAX\* 3B2 or any Linear Alkyl Benzene Sulfonate
  - C<sub>12</sub> - C<sub>14</sub> Alkyl Sulfate
  - C<sub>12</sub> - C<sub>14</sub> Alkyl Ethoxysulfate
  - Na Paraffin Sulfonate
- For stability: Cloud point > 45°C
- Hard water may require the use of low levels of chelating agents
- May be concentrated up to 6X