

# Solstice

CERTIFICATE OF ANALYSIS

Solstice Advanced Materials  
310, Pangyo-ro, Bundang-gu  
Gyeonggi-do 463-400, Korea  
TEL 82 2 2008 2325  
FAX 82 2 2008 2319

**Brand:** CHROMASOLV™  
**Product:** AH100-4A  
**Lot No.:** A8FG1H  
**Production** 2026-08-06  
**Best Before:** 2029-08-05

ACS/HPLC Ethyl Acetate, ACS Reagent, meets ACS Specifications for General Use,  $\geq 99.5\%$  for HPLC, Spectrophotometry, Meets USP Reagent Specifications

| Parameter                       | Specification |        | Result.     | Units |
|---------------------------------|---------------|--------|-------------|-------|
|                                 | Min.          | Max.   |             |       |
| UV Cutoff                       | 253           | 256    | 253.118     | AU    |
| UV Absorbance @ 275nm           |               | 0.05   | 0.009       | AU    |
| UV Absorbance @ 300nm           |               | 0.03   | 0.008       | AU    |
| UV Absorbance @ 325nm           |               | 0.005  | 0.002       | AU    |
| UV Absorbance @ 400nm           |               | 0.005  | 0.000       | AU    |
| Refractive Index (20°C)         | 1.3719        | 1.3727 | 1.3722      |       |
| Residue after Evaporation       |               | 1      | 0.000       | mg/L  |
| GC Analysis                     | 99.9          |        | 99.90       | %     |
| Color (APHA)                    |               | 10     | 6           |       |
| Titration Acid                  |               | 0.9    | 0.218       | µeq/g |
| Substances Darkened by Sulfuric | Passes Test   |        | Passes Test |       |
| Water by Karl Fischer Titration |               | 0.03   | 0.0157      | %     |

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**Brand:** CHROMASOLV™  
**Product:** AH216-4A  
**Lot No.:** A8JM1H  
**Production** 2026-08-11  
**Best Before:** 2029-08-10

Hexane ACS Reagent, for HPLC, Spectrophotometry, >99.9%(total C6 isomers)

| Parameter                       | Specification |        | Result.     | Units |
|---------------------------------|---------------|--------|-------------|-------|
|                                 | Min.          | Max.   |             |       |
| Water by Karl Fischer Titration |               | 0.01   | 0.0092      | %     |
| UV Cutoff                       |               | 195    | 190.276     | AU    |
| UV Absorbance @ 195nm           |               | 1      | 0.626       | AU    |
| UV Absorbance @ 225nm           |               | 0.05   | 0.031       | AU    |
| UV Absorbance @ 250nm           |               | 0.01   | 0.004       | AU    |
| UV Absorbance @ 275nm           |               | 0.005  | 0.000       | AU    |
| UV Absorbance @ 300nm           |               | 0.005  | 0.000       | AU    |
| UV Absorbance @ 400nm           |               | 0.005  | 0.000       | AU    |
| Refractive Index (20℃)          | 1.3732        | 1.3772 | 1.3749      |       |
| Residue after Evaporation       |               | 3      | 0.000       | mg/L  |
| GC Analysis (total C6 isomers)  | 99.9          |        | 99.98       | %     |
| GC Analysis (n-Hexane)          | 95            |        | 99.62       | %     |
| Color (APHA)                    |               | 10     | 4           |       |
| Water-soluble titrable acid     |               | 0.3    | 0.110       | µeq/g |
| Sulfur compounds (as S)         |               | 0.005  | 0.000       | %     |
| Thiophene                       | Passes Test   |        | Passes Test |       |

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**Brand:** CHROMASOLV™  
**Product:** AH015-4A  
**Lot No.:** A8KA1H  
**Production** 2026-08-12  
**Best Before:** 2029-08-11

ACS/HPLC Acetonitrile, ACS Reagent, meets ACS Specifications for General Use, >99.9% for HPLC, Spectrophotometry, Meets USP Reagent Specifications

| Parameter                       | Specification |        | Result.     | Units |
|---------------------------------|---------------|--------|-------------|-------|
|                                 | Min.          | Max.   |             |       |
| Water by Karl Fischer Titration |               | 0.05   | 0.0079      | %     |
| UV Cutoff                       |               | 190    | 188.007     | AU    |
| UV Absorbance @ 200nm           |               | 0.05   | 0.023       | AU    |
| UV Absorbance @ 210nm           |               | 0.04   | 0.011       | AU    |
| UV Absorbance @ 225nm           |               | 0.01   | 0.003       | AU    |
| UV Absorbance @ 250nm           |               | 0.005  | 0.001       | AU    |
| UV Absorbance @ 350nm           |               | 0.005  | 0.000       | AU    |
| UV Absorbance @ 400nm           |               | 0.005  | 0.000       | AU    |
| Refractive Index (20℃)          | 1.3434        | 1.3446 | 1.3438      |       |
| Residue after Evaporation       |               | 1      | 0.000       | mg/L  |
| GC Analysis                     | 99.9          |        | 99.99       | %     |
| Color (APHA)                    |               | 10     | 4           |       |
| Titration Acid                  |               | 8      | 0.270       | μeq/g |
| Titration Base                  |               | 0.6    | 0.070       | μeq/g |
| HPLC Gradient @ 254nm           |               | 0.005  | 0.000357    | AU    |
| Filtered by 0.2 μm filter       | Passes Test   |        | Passes test |       |

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TEL 82 2 2008 2325  
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**Brand:** CHROMASOLV™  
**Product:** AH230-4A  
**Lot No.:** A8KG1H  
**Production** 2026-08-11  
**Best Before:** 2029-08-10

ACS/HPLC Methanol, ACS Reagent, meets ACS Specifications for General Use, >99.9% for HPLC, Spectrophotometry, Meets USP Reagent Specifications

| Parameter                        | Specification |        | Result.     | Units |
|----------------------------------|---------------|--------|-------------|-------|
|                                  | Min.          | Max.   |             |       |
| Water by Karl Fischer Titration  |               | 0.05   | 0.0233      | %     |
| UV Cutoff                        |               | 205    | 204.194     | AU    |
| UV Absorbance @ 225nm            |               | 0.18   | 0.135       | AU    |
| UV Absorbance @ 250nm            |               | 0.02   | 0.016       | AU    |
| UV Absorbance @ 300nm            |               | 0.005  | 0.000       | AU    |
| UV Absorbance @ 400nm            |               | 0.005  | 0.000       | AU    |
| Refractive Index (20℃)           | 1.328         | 1.3288 | 1.3284      |       |
| Residue                          |               | 3      | 0.000       | mg/L  |
| GC Analysis                      | 99.9          |        | 99.97       | %     |
| Color (APHA)                     |               | 10     | 5           |       |
| Solubility in Water              | Passes Test   |        | Passes Test |       |
| Carbonyl Compounds               |               | 0.001  | 0.000       | %     |
| Titration Acid                   |               | 0.3    | 0.284       | µeq/g |
| Titration Base                   |               | 0.2    | 0.072       | µeq/g |
| Appearance                       | Passes Test   |        | Passes Test |       |
| Substances Darkened by Sulfuric  | Passes Test   |        | Passes Test |       |
| Substances Reducing Permanganate | Passes Test   |        | Passes Test |       |
| HPLC Gradient @ 254nm            | Passes Test   |        | Passes Test |       |
| Filtered by 0.2µm filter         | Passes Test   |        | Passes Test |       |

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**Brand:** CHROMASOLV™  
**Product:** AH365-4A  
**Lot No.:** A8KW1H  
**Production** 2026-08-11  
**Best Before:** 2027-08-11

HPLC Water, ACS Reagent for HPLC and Spectrophotometry

| Parameter                        | Specification |       | Result.     | Units |
|----------------------------------|---------------|-------|-------------|-------|
|                                  | Min.          | Max.  |             |       |
| HPLC gradient elution @ 200nm    |               | 0.005 | 0.004       | AU    |
| UV Absorbance @ 200nm            |               | 0.01  | 0.000       | AU    |
| UV Absorbance @ 250nm            |               | 0.005 | 0.000       | AU    |
| UV Absorbance @ 300nm            |               | 0.005 | 0.000       | AU    |
| UV Absorbance @ 400nm            |               | 0.005 | 0.000       | AU    |
| Refractive Index (20°C)          | 1.332         | 1.334 | 1.3330      |       |
| Residue after Evaporation        |               | 3     | 1.7         | mg/L  |
| pH (plastic) bef. N2             | 6             | 7     | 6.2         |       |
| Specific Conductance (25°C)      |               | 2     | 0.74        | µS/cm |
| Total Organic Carbon             |               | 50    | 28          | ppb   |
| Microbial Contamination          | Passes Test   |       | Passes Test |       |
| Substances Reducing Permanganate | Passes Test   |       | Passes Test |       |

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