



High cleaning performance. Reliable Cleaning. Process Stability.

PRODUCT OVERVIEW

AURON CL-54 is a next-generation HCFO-based precision cleaning solvent developed for demanding industrial cleaning applications.

The fluid combines excellent solvency power (Kb Value 44), low environmental impact, non-flammability under standard conditions, and outstanding compatibility with many metals used in industrial manufacturing. Its low boiling point enables fast drying and easy recovery by distillation, making it a highly efficient replacement for traditional chlorinated and fluorinated cleaning solvents.

AURON AS-300 is particularly suited for precision cleaning, degreasing, flux removal, and carrier solvent applications.

KEY FEATURES

- ▶ Excellent solvency (Kb Value 44)
- ▶ GWP < 1
- ▶ Fast evaporation and drying
- ▶ Recoverable by simple distillation
- ▶ Suitable for ultrasonic cleaning systems
- ▶ No stabilizers or surfactants required
- ▶ High process efficiency and low residue formation

APPLICATIONS

- ▶ Precision cleaning: Cutting oils, press oils, silicone oils, greases, waxes, defluxing of PCBAs, electrical assembly cleaning
- ▶ Carrier Solvent Application
- ▶ Solvent Replacement: nPB, TCE, PCE, DCM, 3M™ Novec™, Chemours Vertrel™, Honeywell Solstice® PF

TECHNICAL SPECIFICATIONS

Appearance/Odor	Clear, colorless liquid / pleasant
Chemical Type	HCFO Solvent
Flash Point	None
Boiling Point	54°C
Pour Point	-82.3°C
Density (25°C)	1.39 g/cm ³
Kinematic Viscosity (25°C)	0.57 cSt
Surface Tension	21.7 mN/m
Specific Heat Capacity	1.34 kJ/(kg·K)
Latent Heat of Vaporization	213 kJ/kg
Vapour Pressure	32 Pa
Water Solubility	5.960 mg/L
n-octanol-water partition coefficient	Log Pow: 1.9

ENVIRONMENT & SAFETY

- ▶ ODP: 0.00002 / GWP: < 1
- ▶ Recoverable through solvent recycling
- ▶ Low bioaccumulation potential
- ▶ Suitable for sustainable cleaning processes
- ▶ **PFAS-free**



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CLEANING PERFORMANCE

Oil type	Solubility
Cutting oil	50%
Tool Oil	50%
Quenching Oil	50%
Rolling Oil	50%
Anti-rust oil	50%
Silicone oil	50%

PROCESS ADVANTAGES

- ▶ Rapid drying
- ▶ Low residue
- ▶ High cleaning efficiency
- ▶ Compatible with vapor degreasing systems
- ▶ Suitable for ultrasonic cleaning equipments

ECONOMIC ADVANTAGES

- ▶ Lower environmental compliance costs
- ▶ Reduced solvent consumption through recycling
- ▶ Fast drying reduces cycle times
- ▶ High cleaning efficiency
- ▶ Drop-in replacement for many legacy solvents
- ▶ Supports sustainable manufacturing initiatives

MATERIAL COMPATIBILITY

Compatible with many commonly used industrial metals.
Testing strongly recommended for specific applications!

- ▶ Metals: Carbon steel, Aluminium, copper, stainless steel, brass, magnesium
- ▶ Plastics: PTFE, Epoxy (FR), Nylon 6, Nylon 66, Polyphenylene Sulfide (PPS)
- ▶ Materials requiring testing: PVC, elastomers, rubber
- ▶ **Incompatible materials:**
Polycarbonate, ABS, acrylic, polystyrene

SAFETY

- ▶ Read Safety Data Sheet (SDS) before use
- ▶ For industrial/professional use only
- ▶ CLP Classification: STOT SE Category 3, Aquatic Chronic 3
- ▶ H336, H412, EUH018
- ▶ Does not flash under standard test conditions
- ▶ High occupational exposure limit
- ▶ **AURON CL-54 is PFAS-free**

PACKAGING & STORAGE

- ▶ Available packaging: 5kg plastic bottle / 25kg Canister
- ▶ Store in tightly closed containers
- ▶ Protect from heat and direct sunlight
- ▶ Avoid contact with naked flames and hot surfaces
- ▶ Incompatible with strong oxidizing agents, alkali metals, alkaline earth metals, powdered aluminum, zinc, beryllium

Disclaimer: Information based on current knowledge. User is responsible for verifying product suitability. No warranty for specific results. Specifications subject to change without notice.