

## Same Family. Different Types.

Solstice® Propellant (HFO-1234ze) and Solstice® Performance Fluid (HFO-1233zd) are two new ultra-low global warming potential (GWP) materials developed by Honeywell. Although the names sound similar, they are chemically different, have different properties and are produced in different plants using different processes.



## Properties of Solstice Propellant and Solstice Performance Fluid

	HFO-1234ze		HFO-1233zd	
	Solstice Propellant		Solstice Performance Fluid	
Primary Uses	Solstice Propellant is used in aerosols.		Solstice Performance Fluid is intended for use as a solvent in degreasing equipment, and may be dispensed from an aerosol can.	
Boiling Point	-19°C	2.2°F	19°C	66°F
Liquid Density	9.8 lb/gal	1.17 g/cc	10.6 lb/gal	1.27 g/cc
Vapor Pressure	3.4 bars @ 21°C	49 psig @ 70°F	0.1 bars @ 21°C	1.4 psig @ 70°F
Vapor Flame Limits	No (Test Method: ASTM E681, ISO 10156:2010)		No (Test Method: ASTM E681)	
KB Value	<10		25	

## What they have in common:

- Very low order of toxicity. The WEEL value of each is 800 ppm
- Very low global warming potential (Solstice Propellant is less than 1, and Solstice Performance Fluid is 1)
- Very low photochemical reactivity. They are not classified as volatile organic compounds (VOCs) as determined by the U.S. Environmental Protection Agency (EPA)

### Honeywell Performance Materials and Technologies

101 Columbia Road, Morristown, NJ 07962-1053

1-800-631-8138 • 716-827-6242 • +39 347 329 7943

[www.honeywell-solstice-propellants.com](http://www.honeywell-solstice-propellants.com)

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