

Vanadium Tetrachloride (VCl₄)



CHEMISTRY

Major Elements			
	Min.	Aim	Max.
Vanadium (Total)	25.7%	26.3%	26.9%
Vanadium (V ⁺⁵)			0.05%
Aluminum (Al)			0.003%
Copper (Cu)			0.001%
Iron (Fe)			0.01%
Manganese (Mn)			0.001%
Molybdenum (Mo)			0.004%
Nickel (Ni)			0.003%
Boiling Point	152.3°C	153.5°C	154.7°C


PHYSICAL CHARACTERISTICS

Decomposition Properties	
VCl ₄ naturally decomposes slowly forming VCl ₃ solids and Cl ₂ gas. The decomposition rate increases with the temperature; it is therefore recommended that:	
<ol style="list-style-type: none"> 1. VCl₄ be used within 180 days of manufacture; 2. Exposure to high temperatures or direct sunlight be avoided. 	
Physical Properties	
Freezing Point:	-28°C (-18.4°F)
Bulk Density:	114 lbs/ft ³ .
Specific Gravity:	1.82 g/cc
Appearance	
Opaque Reddish-Brown Liquid	
Standard Packaging	
250-gallon (950-liter) DOT or IMO containers containing 3,000 lbs. (1,360 kg) of product.	

Vanadium Tetrachloride (VCl₄) is a high-purity product produced at our ISO 9001:2015 certified Hot Springs, Arkansas facility.

US Vanadium's vanadium tetrachloride is a high-purity catalyst used in the production of EPDM rubber.

Specification No. MCB Revision No. 8
 Issue Date: 06/01/89 Revision Date: 10/22/19

Director of Technology Approval 
 Quality Manager Approval 