

Esterex™ P81

Synthetic Fluid

Product Description

Esterex™ Phthalate Esters are API category Group V fluids. These esters have excellent low-temperature properties, good lubricating properties and low volatilities. Esterex™ Phthalate Esters can be used as sole basestocks or blendstocks with other synthetic fluids in many automotive and industrial lubricant applications. These esters are ideal for use in air compressor applications, where low viscosity indices are acceptable and low-cost, clean operation is desirable.

Properties	Minimum	Maximum	Unit	Test Method
Specific Gravity ¹ (20°C)	0.953	0.959		BRCP 4843
Appearance ¹	Clear, Free of Suspended Matter	--		BRCP 4065
Color, Pt-Co ¹	--	75		BRCP 4273
Kinematic Viscosity ¹				BRCP 4375
100°C	8.0	9.0	cSt	
40°C	81.0	92.0	cSt	
Pour Point ¹	--	-35	°C	BRCP 4377
Flash Point, COC ¹	225	--	°C	BRCP 4366
Water ¹	--	0.10	wt%	BRCP 5053
Odor ¹	Characteristic	--		BRCP 4550
Total Acid Number ¹	--	0.13	mg KOH/g	BRCP 4625
Ester Content ¹	99.5	--	wt%	BRCP 4630

Notes

¹ Test reported on Certificate of Analysis

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

©2025 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com