

Isopar™ Exxsol™ Varsol™

ExxonMobil

Typical properties 2023
Americas portfolio

Fluids at a glance





Paints & Coatings

Oilseed Extraction

Compressor Wash Oils

Water Treatment

Drilling Fluids

Fuels & Lube Additives

Cosmetic & Personal Care

Tire Manufacturing

Household Pesticides

Polymerization

Mining and Metal Extraction

Agriculture Pesticides and Adjuvants

Hydraulic Fracturing

Printing Inks

Cleaning

Metalworking

Adhesive & Mastics

Thermal Management

Oilfield Chemicals

ExxonMobil

Fluids at a glance - Typical properties 2023 - Americas portfolio

Safety and handling information

Hydrocarbon fluids		Distillation range °C		Flash point °C	Specific gravity at 15.6°C/15.6°C	Density at 15.6°C lb/gal	Evaporation rate at 25°C n-BuAc = 100	Vapor pressure at 20°C mm Hg	Aniline point °C ^ = Mixed aniline point °C	Kauri butanol value	Kinematic viscosity at 25°C cSt	Kinematic viscosity at 40°C cSt	Aromatic content wt% ** = vol%	Color Saybolt ^ = ASTM scale	Refractive index at 25°C	U.S. OSHA hazard communication standard									
			Hazard category													Health hazard categories	Hazard phrases	Label pictogram and signal word							
Isoparaffin fluids	Isopar™ C	98	104	<2	0.699	5.83	380	34	79	29	0.73	0.63	0.002	+30	1.390	Isopar™ C	Flam Liq Cat2	Skin irritation Cat2; STOT (cent. nerv. syst) Cat3; Asp. Hazard Cat1	H225; H304; H315; H336				Dgr		
	Isopar E	115	140	7	0.723	6.03	170	15	73	32	0.87	0.74	0.002	+30	1.402	Isopar E	Flam Liq Cat2	Skin irritation Cat2; STOT (cent. nerv. syst) Cat3; Asp. Hazard Cat1	H225; H304; H315; H336				Dgr		
	Isopar G	165	175	45	0.748	6.24	16	1.2	84	27	1.49	1.20	0.001	+30	1.416	Isopar G	Flam Liq Cat3	Asp. Hazard Cat1	H226; H304				Dgr		
	Isopar H	178	189	55	0.758	6.32	7.3	0.6	85	28	1.78	1.41	0.001	+30	1.421	Isopar H	Flam Liq Cat3	Asp. Hazard Cat1	H226; H304				Dgr		
	Isopar K	180	199	58	0.760	6.33	6.3	0.5	85	29	1.86	1.46	0.003	+30	1.422	Isopar K	Flam Liq Cat3	Asp. Hazard Cat1	H226; H304				Dgr		
	Isopar L	189	207	64	0.766	6.38	3.7	0.3	86	26	2.06	1.61	0.004	+30	1.425	Isopar L	Flam Liq Cat4	Asp. Hazard Cat1	H227; H304				Dgr		
	Isopar M	228	254	97	0.787	6.56	0.3	0.02	93	24	4.22	3.02	0.006	+30	1.435	Isopar M	--	Asp. Hazard Cat1	H304				Dgr		
	Isopar V	271	307	127	0.812	6.77	<0.1	<0.01	99	22	14.94	8.15	0.03	+30	1.447	Isopar V	--	Asp. Hazard Cat1	H304				Dgr		
Dearomatized fluids	Exxsol™ Hexane	66	69	-28	0.673	5.61	1400	134	66	31	0.51	0.43	0.002	+30	1.376	Exxsol™ Hexane	Flam Liq Cat2	Skin irrit. Cat2; Repro. tox (fert.) Cat2; STOT (cent. nerv. syst) Cat3; STOT (RE) Cat2; Asp. Hazard Cat1	H225; H304; H315; H336; H361; H373				Dgr		
	Exxsol Heptane	94	99	-4	0.695	5.79	490	44	69	30	0.61	0.53	0.002	+30	1.388	Exxsol Heptane	Flam Liq Cat2	Skin irritation Cat2; STOT (cent. nerv. syst) Cat3; Asp. Hazard Cat1	H225; H304; H315; H336				Dgr		
	Exxsol D40	159	205	43	0.779	6.50	15	1.3	69	33	1.33	1.09	0.002	+30	1.428	Exxsol D40	Flam Liq Cat3	STOT (cent. nerv. syst) Cat3; Asp. Hazard Cat1	H226; H304; H336				Dgr		
	Exxsol D60	190	212	65	0.797	6.64	3.6	0.3	71	32	1.80	1.43	0.004	+30	1.436	Exxsol D60	Flam Liq Cat4	Asp. Hazard Cat1	H227; H304				Dgr		
	Exxsol D80	206	240	82	0.803	6.70	1.3	0.1	75	32	2.26	1.74	0.002	+30	1.440	Exxsol D80	Flam Liq Cat4	Asp. Hazard Cat1	H227; H304				Dgr		
	Exxsol D95	226	256	97	0.809	6.74	0.4	0.03	79	28	2.83	2.13	0.01	+30	1.443	Exxsol D95	--	Asp. Hazard Cat1	H304				Dgr		
	Exxsol D110	250	270	114	0.814	6.79	<0.1	0.01	83	27	3.78	2.69	0.04	+30	1.446	Exxsol D110	--	Asp. Hazard Cat1	H304				Dgr		
	Exxsol D130	279	310	136	0.832	6.94	<0.1	<0.01	88	24	7.38	4.86	0.42	+30	1.455	Exxsol D130	--	Asp. Hazard Cat1	H304				Dgr		
Non-dearomatized fluids	Exxsol D145	285	370**	148	0.840	7.00	<0.1	<0.01	100	19	15.31	9.14	0.004	+30	1.461	Exxsol D145	--	Asp. Hazard Cat1	H304				Dgr		
	Varsol™ 1	155	205	43	0.789	6.58	16	1.4	55	37	1.27	1.04	17	+30	1.436	Varsol™ 1	Flam Liq Cat3	Carc. Cat2 (†); STOT (cent. nerv. syst) Cat3; Asp. Hazard Cat1	H226; H304; H336				Dgr		
	Varsol 18	158	205	43	0.783	6.53	16	1.3	64	35	1.34	1.11	5	+30	1.431	Varsol 18	Flam Liq Cat3	STOT (cent. nerv. syst) Cat3; Asp. Hazard Cat1	H226; H304; H336				Dgr		
	Varsol 110	250	292	116	0.826	6.89	<0.1	0.01	75	30	3.64	2.74	14**	+12	1.455	Varsol 110	--	Asp. Hazard Cat1	H304				Dgr		
Aromatic fluids	Aromatic 100	160	171	46	0.873	7.27	25	2.1	14^	92	0.95	0.80	>98	+30	1.496	Aromatic 100	Flam Liq Cat3	Carc. Cat2; STOT (cent. nerv. syst) Cat3; STOT (resp. ir.) Cat3; Asp. Hazard Cat1	H226; H304; H335; H336; H351				Dgr		
	Aromatic 150	183	207	69	0.896	7.47	7.2	0.6	15^	93	1.36	1.11	>99	+30	1.511	Aromatic 150	Flam Liq Cat4	Carc. Cat2; STOT (cent. nerv. syst) Cat3; Asp. Hazard Cat1	H227; H304; H336; H351				Dgr		
	Aromatic 150 ND	182	193	68	0.884	7.37	8.4	0.7	16^	90	1.23	0.99	>99	+30	1.503	Aromatic 150 ND	Flam Liq Cat4	Carc.Cat2 (†); STOT (SE - cent. nerv. syst) Cat3; Asp. Hazard Cat1	H227; H304; H336; H351				Dgr		
	Aromatic 200	231	283	103	0.995	8.29	0.6	0.04	13^	99	2.75	1.98	>99	L0.5^	1.591	Aromatic 200	--	Carc. Cat2; Asp. Hazard Cat1	H304; H351				Dgr		
	Aromatic 200 ND	238	282	108	1.001	8.35	0.4	0.03	13^	95	2.90	2.12	>99	L0.5^	1.596	Aromatic 200 ND	--	Carc. Cat2 (†); Asp. Hazard Cat1	H304; H351				Dgr		
Oxygenated fluids		Distillation range °C		Flash point °C	Water content wt%	Density at 20°C lb/gal	Evaporation rate at 25°C n-BuAc = 100	Solubility in water at 25°C wt%	Acidity as acetic acid wt%	Surface tension at 25°C mN/m	Kinematic viscosity at 25°C cSt	Hansen parameters			Purity wt%	Color Pt/Co	Refractive index at 20°C	U.S. OSHA hazard communication standard							
		D δd	P δp									H δh		Hazard category				Health hazard categories	Hazard phrases	Label pictogram and signal word					
	ExxonMobil™ IPA	82.1	82.3	12	0.01	6.56	390	∞	0.0004	21	2.67	15.8	6.1	16.4	99.9	5	1.377	ExxonMobil™ IPA	Flam Liq Cat2	Eye irrit. Cat2A; STOT (cent. nerv. syst) Cat3	H225; H319; H336				Dgr
	ExxonMobil IPE	--	--	--	0.01	6.05	1300	--	0.0002	--	0.50	15.1	3.2	3.2	99.7	5	1.368	ExxonMobil IPE	Flam Liq Cat2	STOT (cent. nerv. syst) Cat3	H225; H336				Dgr
	ExxonMobil MEK	79.1	79.5	<0	0.02	6.72	770	26	0.002	24	0.53	16.0	9.0	5.1	99.9	3	1.379	ExxonMobil MEK	Flam Liq Cat2	Eye irrit. Cat2A; STOT (cent. nerv. syst) Cat3	H225; H319; H336				Dgr
	ExxonMobil SBA	99.1	99.8	24	0.05	6.74	160	18	0.001	23	3.76	15.8	5.7	14.7	99.2	4	1.397	ExxonMobil SBA	Flam Liq Cat3	Eye irrit. Cat2A; STOT (cent. nerv. syst) Cat3; STOT (respiratory irrit.) Cat3	H226; H319; H335; H336				Wng
Sarnia hydrocarbon fluids		Distillation range °C		Flash point °C	Specific gravity at 15.6°C/15.6°C	Density at 15.6°C lb/gal	Evaporation rate at 25°C n-BuAc = 100	Vapor pressure at 20°C mm Hg	Aniline point °C	Kauri butanol value	Kinematic viscosity at 25°C cSt	Kinematic viscosity at 40°C cSt	Aromatic content wt% ** = vol%	Color Saybolt	Refractive index at 25°C ** = 20°C	U.S. OSHA hazard communication standard									
		IBP	DP ** = FBP														Hazard category	Health hazard categories	Hazard phrases	Label pictogram and signal word					
Isoparaffin fluids	Isopar K Naphtha	184	202	62	0.764	6.37	5.1	0.4	82	27	1.59	1.27	0.004**	+30	1.423	Isopar K Naphtha	Flam Liq Cat3	Asp. Hazard Cat1	H226; H304				Dgr		
	Isopar M Naphtha	231	251	99	0.794	6.62	0.3	0.02	88	26	3.34	2.44	0.004	+30	1.438	Isopar M Naphtha	--	Asp. Hazard Cat1	H304				Dgr		
Dearomatized fluids	Exxsol Pentane	25	34	<-30	0.630	5.25	5500	525	--	--	0.35	--	0.005	+30	1.356**	Exxsol Pentane	Flam Liq Cat1	STOT (SE) (cent. nerv. syst) Cat3; Asp. Hazard Cat1	H224; H304; H336				Dgr		
	Exxsol Hexane Naphtha	65	69	<-30	0.673	5.61	1500	136	66	29	0.51	0.43	0.003**	+30	1.376	Exxsol Hexane Naphtha	Flam Liq Cat2	Skin Irrit. Cat2; Repro. Tox (Fert.) Cat2; STOT (cent. nerv. syst) Cat3; STOT (RE) Cat2; Asp. Hazard Cat1	H225; H304; H315; H336; H361; H373				Dgr		
	ExxonMobil 1520 Naphtha*	67	91	<-30	0.681	5.68	1100	100	67	30	0.54	0.46	0.009	+30	1.379	ExxonMobil 1520 Naphtha*	Flam Liq Cat2	Skin Irritation Cat2; STOT (SE) (cent. nerv. syst) Cat3; Asp. Hazard Cat1	H225; H304; H315; H336				Dgr		
	Exxsol D3135 Naphtha	156	176	40	0.776	6.47	21	1.8	66	34	1.20	0.99	0.007**	+30	1.426	Exxsol D3135 Naphtha	Flam Liq Cat3	STOT (SE) (cent. nerv. syst) Cat3 ; Asp. Hazard Cat1	H226; H304; H336				Dgr		
	Exxsol D40 Naphtha	157	199	43	0.783	6.53	15	1.3	67	34	1.36	1.11	0.006**	+30	1.429	Exxsol D40 Naphtha	Flam Liq Cat3	STOT (SE) (cent. nerv. syst) Cat3; Asp. Hazard Cat 1	H226; H304; H336				Dgr		
	Exxsol D60 Naphtha	187	208	64	0.795	6.63	4.4	0.4	69	33	1.68	1.36	0.009**	+30	1.435	Exxsol D60 Naphtha	Flam Liq Cat4	Asp. Hazard Cat1	H227; H304				Dgr		
Non-dearomatized fluids	Varsol 1 Naphtha	158	199	45	0.794	6.62	14	1.2	56	38	1.28	1.07	15**	+30	1.439	Varsol 1 Naphtha	Flam Liq Cat3</								

Notes: Typical values indicated in this chart describe typical physical properties and do not constitute specification limits. The typical values may vary over time. Test methods are available on Product Data Sheets.

*Marketed as Isosol™ in Canada by Imperial Oil.

Notes: Complete Safety Data Sheet can be obtained from <https://sds.exxonmobil.com/>

† Product contains a Cat 2 carcinogen at concentration between 0.1 and 1.0 wt% and is assigned a hazard classification on that basis. The associated label elements and product label information are optional.



Benefit from ExxonMobil's hydrocarbon fluids expertise with:

- Global leadership committed to helping grow your business
- Extensive product portfolio bringing you customized solutions
- Technology experts committed to understanding your needs and providing solutions



Technical question?

Connect directly with our technical experts at exxonmobilchemical.com/AnswerPerson



For more information please visit:
exxonmobilchemical.com

© 2023 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.