ExxonMobil

Isopar™ fluids

High purity synthetic isoparaffins

Driving operational and SHE performance[1] together

Isopar™ fluids are high-purity synthetic isoparaffins with consistent quality and widely used from industrial to consumer applications.

Their array of attributes could help you and your customers gain a competitive advantage from multiple perspectives.

High purity

With extremely low aromatic content <100 wppm*

*typical for most Isopar grades

The right grade for each application

A broad portfolio that offers ability to customize flow, wetting and flash characteristics

Operational benefits

Manufacturing efficiency

Narrow distillation range
Compatible with most metals and plastics
Low corrosion potential

Reliable use at low temperatures

Very low pour point

Worldwide supply excellence

Available globally, backed by world-scale integrated petrochemical facilities

Improved SHE performance

Support workers' health and comfort

Lower OEL[2] and VHR[3] risks versus white spirit
Virtually odorless, with typical aromatic content ≤ 0.01%

Easy to recover and reuse

Inertness and narrow boiling range make Isopar™ fluids chemically stable and therefore eligible for reuse

Regulatory clearances expands its use in multiple applications

Comprehensive product registrations for industrial and consumer uses

[1] SHE - Safety, Health and Environment. This is compared to white spirits which are hydrocarbon solvent containing C9-C11 constituents with distillation range of approximately 150-200°C and containing 15-20% aromatics; example Varsol™ 40

[2] Occupational Exposure Limit

[3] Vapor Hazard Ratio

Isopar™ fluids: A broad portfolio across multiple applications

Industrial applications	Isopar™ C	Isopar™ E	Isopar™ G	Isopar™ H	Isopar™ J	Isopar™ K	Isopar™ L	Isopar™ M	Isopar™ N	Isopar™ V
Industrial cleaning		●	●	●			●			
Metalworking				●			●	●		
Paints & Coatings		●	●	●	●		●			
Polyacrylamide production			●		●	●		●		
Polymerization	●	●	●	●		●	●		●	
Printing inks							●			

Consumer applications	Isopar™ C	Isopar™ E	Isopar™ G	Isopar™ H	Isopar™ J	Isopar™ K	Isopar™ L	Isopar™ M	Isopar™ N	Isopar™ V
Air Fresheners & Vaporizers							●	●		●
Cosmetics & Personal Care	●	●	●	●		●	●	●		
Healthcare & Medical	●		●				●	●		
Household Cleaners & Polishes		●	●	●			●	●		
Household insecticides							●	●		●

Key properties[4]	Test method	U.O.M	Isopar™ C	Isopar™ E	Isopar™ G	Isopar™ H	Isopar™ J	Isopar™ K	Isopar™ L	Isopar™ M	Isopar™ N	Isopar™ V
Density at 15°C	ISO 12185	kg/m^3	698	722	747	760	764	762	768	783	790	812
Flash point	ASTM D56 / D93	°C	-8	5	47	58	61	59	68	81	99	129
Boiling range	ASTM D86	°C	99-104	114-138	162-172	178-189	183-209	181-206	189-211	208-252	228-256	272-313
Aniline point	ASTM D611	°C	78	73	78	80	81	81	82	86	87	101
Viscosity at 25°C	ASTM D7402	mm^2/s	0.71	0.83	1.15	1.40	1.54	1.49	1.71	2.54	3.09	14.80
Aromatics content	UV	wt%	<0.001	<0.001	0.002	0.002	0.002	0.002	0.0019	0.003	0.003	0.036

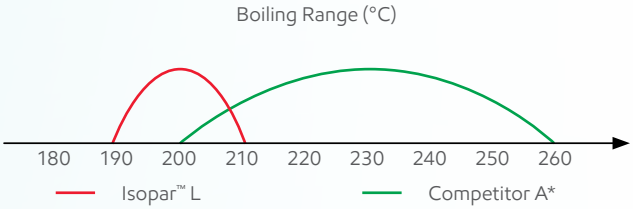
Values in above table are typical values and do not constitute specification limits.

[4] Source: Fluids at a Glance Typical properties 2025 Europe, Middle East & Africa portfolio

Operational benefits

Manufacturing efficiency

- Narrow boiling range enables stable operation and consistent drying rate
- Compatible with most metals and plastics
- Have low corrosion potential



*GTL with 80% iso-paraffins + 20% normal paraffins

Reliable use at low temperatures

Very low pour point
<-60°C*

*Typical for most Isopar grades

Worldwide supply excellence

- ExxonMobil Chemical is the leading global producer of hydrocarbon fluids with world-scale integrated petrochemical facilities
- Isopar™ fluids are available globally, with regional distribution network

Improved SHE performance

Support workers' health and comfort

Virtually odorless

	Odor [5]	Occupational exposure limit (OEL)[6]	Vapor hazard ratio (VHR)(at 20°C)[7]	Aromatic content (wt)[8]
White spirit/mineral spirit-based[9]	Reference	300 mg/m³	35	≈20%
Exxsol™ D40	Up to 17x lower	1200 mg/m³	9	<0.01%
Isopar™ L	Up to 85x lower	1200 mg/m³	2	<0.01%

Higher OEL → Lower health hazard (inhalation)

Lower VHR means lower likelihood of exceeding the OEL

VHR ≤ 3 indicates low risk of overexposure under conditions of normal ventilation

[5] St Croix Sensory Solvent Odor Comparative Analysis, August 2016

[6] ExxonMobil recommended OEL using Reciprocal Calculation Procedure. (A method for calculating Occupational Exposure Limits (OELs) for hydrocarbon solvent mixtures based on the concentrations of the hydrocarbons present, and on their individual OELs. OEL can be found in Product Safety Datasheet

[7] Ratio of the saturated vapor concentration to the occupational exposure limit

[8] Fluids at a Glance Typical properties 2025 Europe, Middle East & Africa portfolio

[9] Varsol™ 40

Easy to recover and reuse

Low bromine index makes Isopar fluids chemically stable and eligible for reuse

Low bromine index
< 10 mg Br/100g*

*typical for most Isopar fluids grades

Isopar™ fluids has comprehensive product registrations for industrial and consumer uses

Representations[10]	Key segments
Chemical Inventory/REACH	Global application
FDA Indirect Food Contact	Lubricant / Metalworking
NSF Nonfood Designations	Lubricant / Metalworking
INCI Personal Care	Cosmetics
EPA Tradename Inert Pesticide	Agriculture
Low Vapor Pressure VOC	Consumer products

[10] Representations can be provided under request

Have a technical question?

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

ExxonMobil