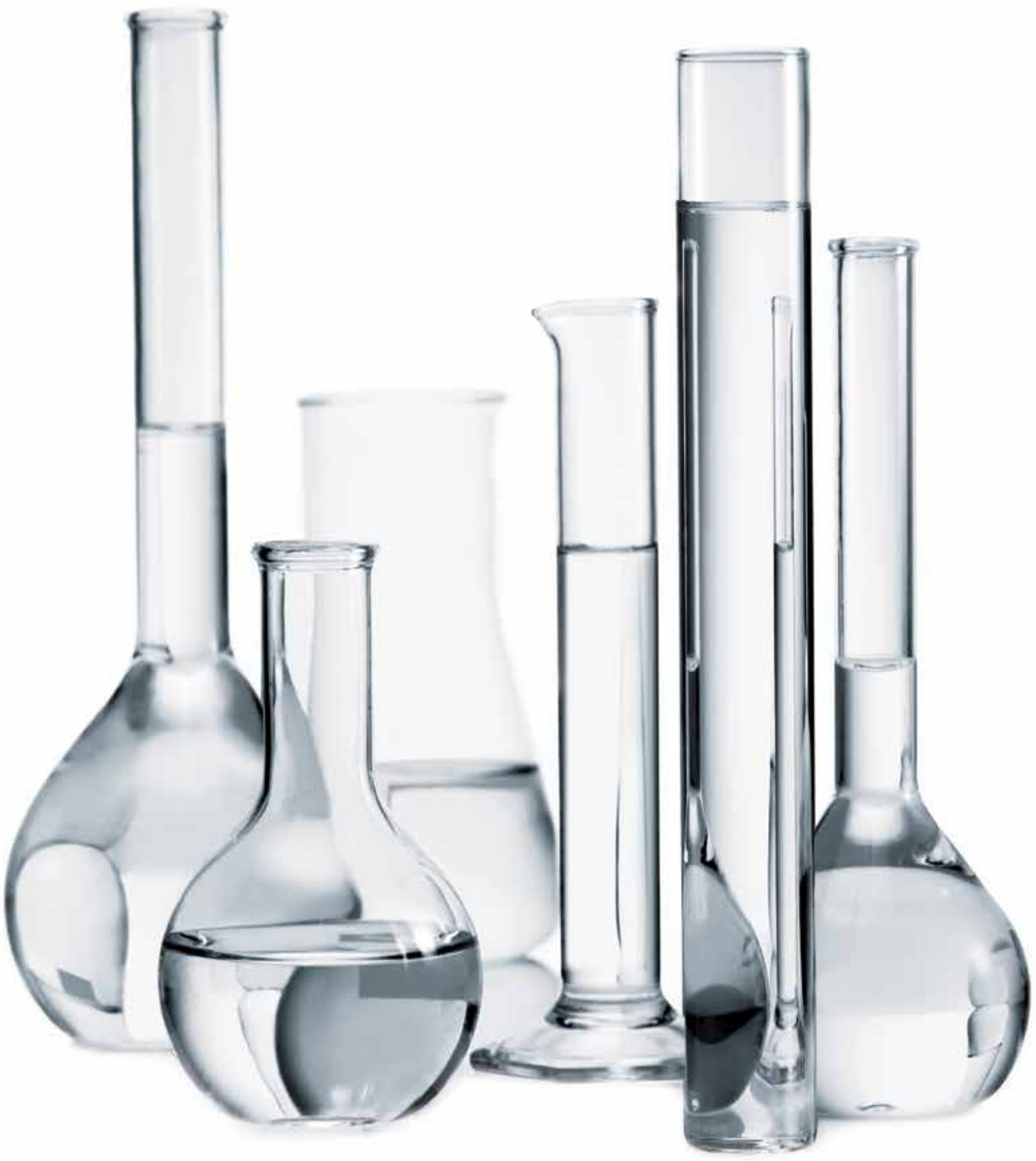
Isopar™ Exxsol™ Varsol™ Solvesso™

ExxonMobil

Typical properties 2020
Europe, Middle East & Africa portfolio

Fluids at a glance

Energy lives here™



Fluids at a glance

Typical properties 2020 - Europe, Middle East & Africa

Hydrocarbon fluids All hydrocarbon fluids typically contain 1 ppm sulphur or lower	Products	Distillation IBP °C	Distillation DP / FBP^ °C	Flash point °C	Density at 15°C kg/m³	Evaporation rate at 25°C n-BuAc = 100	Vapor pressure at 20°C ExxonMobil kPa	Aromatic content wt%	Aniline point mixed^ °C	Kinematic viscosity at 25°C mm²/s	Surface tension at 25°C mN/m	Color Saybolt color ASTM scale^	Refractive index at 20°C
Isoparaffins All Isopar™ fluids typically contain less than 1 ppm benzene	**Isopar C**	98	105	-5	699	360	4	≤0.001	78	0.69	18.8	+30	1.393
	Isopar E	115	139	8	723	170	2	≤0.001	73	0.83	20.9	+30	1.405
	Isopar G	163	175	45	748	18	0.2	0.002	78	1.11	22.9	+30	1.418
	Isopar H	180	190	59	759	7.1	0.08	0.003	80	1.38	23.7	+30	1.423
	Isopar J	183	208	61	763	4.9	0.05	0.003	81	1.52	24.0	+30	1.425
	Isopar K	181	204	61	761	5.5	0.06	0.003	81	1.46	23.8	+30	1.424
	Isopar L	192	211	69	767	3.2	0.03	0.002	82	1.68	24.2	+30	1.427
	Isopar M	208	254^	81	782	0.9	0.011	0.002	86	2.44	25.0	+30	1.435
	Isopar N	227	256^	96	787	0.3	0.006	0.002	87	2.91	25.4	+30	1.437
	Isopar V	270	308^	127	812	<0.1	<0.001	0.05	99	12.52	26.0	+30	1.450
Pentanes All Exxsol™ Pentane fluids typically contain less than 1 ppm benzene	**Exxsol Isopentane S**	27	29	-55	624	6100	78	≤0.001	NA*	0.32	14.6	+30	1.354
	Exxsol Pentane 80	34	35	-50	631	4700	61	≤0.001	NA*	0.33	15.4	+30	1.357
	Exxsol Pentane 100 S	36	37	-48	632	4400	56	≤0.001	NA*	0.33	15.7	+30	1.358
Dearomatized All Exxsol™ D fluids typically contain less than 1 ppm benzene	**Exxsol Isohexane**	56	62	-36	673	2100	27	≤0.001	NA*	0.44	17.7	+30	1.377
	Exxsol Hexane	66	69	-28	678	1400	18	≤0.001	64	0.47	16.0	+30	1.380
	Exxsol Heptane	94	99	-6	721	470	6	≤0.001	59	0.64	21.1	+30	1.400
	Exxsol DSP 60/95 S	64	98	-27	702	1200	15	≤0.001	61	0.55	16.7	+30	1.391
	Exxsol DSP 80/110	89	107	-10	726	500	6	≤0.001	56	0.66	21.0	+30	1.403
	Exxsol DSP 100/140	106	138	0	744	220	3	0.001	59	0.78	22.0	+30	1.412
	Exxsol DSP 100/160	109	157	4	747	170	2	0.001	60	0.82	22.2	+30	1.414
	Exxsol DSP 145/160	146	157	33	764	38	0.4	0.002	65	1.01	23.6	+30	1.423
	Exxsol D30	138	164	28	763	49	0.6	≤0.001	64	0.98	23.4	+30	1.422
	Exxsol D40	154	193	41	777	19	0.2	≤0.001	67	1.25	24.5	+30	1.429
	Exxsol D60	185	214	65	793	7.6	0.08	≤0.001	70	1.66	25.6	+30	1.437
	Exxsol D80	203	240	79	807	1.6	0.018	≤0.001	72	2.18	26.5	+30	1.444
	Exxsol D220/230	221	233^	91	811	0.8	0.011	0.001	75	2.44	26.7	+30	1.446
	Exxsol D220/240	222	248^	90	813	0.6	0.009	0.001	75	2.53	26.0	+30	1.447
	Exxsol D100 ULA	235	265^	103	822	0.2	0.003	0.003	77	3.16	27.4	+30	1.451
	Exxsol D120	253	297^	119	832	<0.1	0.001	0.1	82	4.68	28.0	+30	1.456
	Exxsol D140	278	313^	137	832	<0.1	<0.001	0.6	88	6.55	28.3	+30	1.457
Naphtenics Nappar™ 6 fluid typically contains less than 1 ppm benzene	**Nappar 6**	78	82	-17	763	910	11	≤0.001	36	0.90	23.0	+30	1.417
Non-dearomatized (Varsol™ fluids)	**Varsol 30**	137	164	28	774	47	0.5	19	52	0.95	23.8	+30	1.431
	Varsol 40	155	194	42	788	17	0.2	19	55	1.21	24.9	+30	1.438
	Varsol 60	184	214	65	804	4.9	0.05	21	58	1.55	25.9	+30	1.446
	Varsol 80	204	241	80	820	1.5	0.016	23	61	2.11	26.8	+30	1.454
	Varsol 120	256	297^	120	847	<0.1	0.001	27	68	4.67	28.4	+30	1.470
Aromatics All Solvesso™ fluids typically contain less than 1 ppm benzene	**Solvesso 100**	166	181	50	877	18	0.2	>99	14^	1.00	29.1	+30	1.502
	Solvesso 150	180	206	66	896	7.7	0.08	>99	15^	1.27	30.3	+30	1.514
	Solvesso 150 ND	180	194	64	885	9.2	0.10	>99	15^	1.18	29.7	+30	1.506
	Solvesso 200	231	280^	105	992	0.4	0.003	>99	13^	2.74	35.4	0.5^	1.590
	Solvesso 200 ND	246	301^	115	990	0.1	0.001	>99	14^	3.85	35.6	<1.0^	1.588

Oxygenated fluids	Products	Distillation IBP °C	Distillation DP °C	Flash point °C	Density at 20°C kg/m³	Evaporation rate at 25°C n-BuAc = 100	Water content wt%	Solubility in water at 25°C wt%	Acidity as acetic acid wt%	Purity wt%	Kinematic viscosity at 25°C mm²/s	Surface tension at 25°C mN/m	Color Pt-Co	Refractive index at 20°C
ExxonMobil™ fluids	**ExxonMobil IPA**	82.1	82.3	12	785	390	0.02	∞	0.001	>99.9	2.65	21.0	2	1.377
	ExxonMobil MEK	79.5	79.8	<0	805	770	0.01	26	0.002	99.9	0.48	24.3	5	1.379
	ExxonMobil SBA	99.5	100.1	23	805	160	0.03	18	0.001	99.3	3.79	23.0	5	1.397

NON-VOC according to Paint directive (2004/42/CE)
NON-VOC according to Directive 2010/75/EU on industrial emissions

* NA: Not applicable

Safety and handling information

Classification and labelling in the European Union according to CLP[1]					Transport classification				
Products	Hazard categories	Label pictogram signal word		Hazard statement code(s)	UN number	Packing group	Class/ Div. or label(s)	EHS/Marine pollutant (YES/NO)	Classification code
Isopar C	Flam. Liquid 2. Skin Irrit. 2. Aspiration Tox. 1. STOT SE 3 (narcosis). Aquatic Chronic 2		Dgr	H225. H304. H315. H336. H411	1262 [2]	II	3	YES	F1
Isopar E	Flam. Liquid 2. Skin Irrit. 2. Aspiration Tox. 1. STOT SE 3 (narcosis). Aquatic Chronic 2		Dgr	H225. H304. H315. H336. H411	3295	II	3	YES	F1
Isopar G	Flam. Liquid 3. Aspiration Tox. 1. Aquatic Chronic 2		Dgr	H226. H304. H411. EUH066	3295	III	3	YES	F1
Isopar H	Flam. Liquid 3. Aspiration Tox. 1		Dgr	H226. H304. EUH066	3295	III	3	NO	F1
Isopar J	Flam. Liquid 3. Aspiration Tox. 1		Dgr	H226. H304. EUH066	3295	III	3	NO	F1
Isopar K	Flam. Liquid 3. Aspiration Tox. 1		Dgr	H226. H304. EUH066	3295	III	3	NO	F1
Isopar L	Aspiration Tox. 1		Dgr	H304. EUH066	- [2]	-	-	NO	-
Isopar M	Aspiration Tox. 1		Dgr	H304. EUH066	- [2]	-	-	NO	-
Isopar N	Aspiration Tox. 1		Dgr	H304. EUH066	- [2]	-	-	NO	-
Isopar V	Aspiration Tox. 1		Dgr	H304. EUH066	-	-	-	NO	-
Exxsol Isopentane S	Flam. Liquid 1. Aspiration Tox. 1. STOT SE 3 (narcosis). Aquatic Chronic 2		Dgr	H224. H304. H336. H411. EUH066	1265	I	3	YES	F1
Exxsol Pentane 80	Flam. Liquid 1. Aspiration Tox. 1. STOT SE 3 (narcosis). Aquatic Chronic 2		Dgr	H224. H304. H336. H411. EUH066	1265	I	3	YES	F1
Exxsol Pentane 100 S	Flam. Liquid 1. Aspiration Tox. 1. STOT SE 3 (narcosis). Aquatic Chronic 2		Dgr	H224. H304. H336. H411. EUH066	1265	I	3	YES	F1
Exxsol Isohexane	Flam. Liquid 2. Skin Irrit. 2. Aspiration Tox. 1. STOT SE 3 (narcosis). Aquatic Chronic 2		Dgr	H225. H304. H315. H336. H411	1208	II	3	YES	F1
Exxsol Hexane	Flam. Liquid 2. Skin Irrit. 2. Repr. 2. STOT RE 2. Aspiration Tox. 1. STOT SE 3 (narcosis). Aquatic Chronic 2		Dgr	H225. H304. H315. H336. H361. H373. H411	1208	II	3	YES	F1
Exxsol Heptane	Flam. Liquid 2. Skin Irrit. 2. Aspiration Tox. 1. STOT SE 3 (narcosis). Aquatic Chronic 2		Dgr	H225. H304. H315. H336. H411	1206 [2]	II	3	YES	F1
Exxsol DSP 60/95 S	Flam. Liquid 2. Skin Irrit. 2. Aspiration Tox. 1. STOT SE 3 (narcosis). Aquatic Chronic 2		Dgr	H225. H304. H315. H336. H411	3295	II	3	YES	F1
Exxsol DSP 80/110	Flam. Liquid 2. Skin Irrit. 2. Aspiration Tox. 1. STOT SE 3 (narcosis). Aquatic Chronic 2		Dgr	H225. H304. H315. H336. H411	3295	II	3	YES	F1
Exxsol DSP 100/140	Flam. Liquid 2. Aspiration Tox. 1. STOT SE 3 (narcosis). Aquatic Chronic 2		Dgr	H225. H304. H336. H411. EUH066	3295	II	3	YES	F1
Exxsol DSP 100/160	Flam. Liquid 2. Aspiration Tox. 1. STOT SE 3 (narcosis). Aquatic Chronic 2		Dgr	H225. H304. H336. H411. EUH066	3295	II	3	YES	F1
Exxsol DSP 145/160	Flam. Liquid 3. Aspiration Tox. 1. STOT SE 3 (narcosis). Aquatic Chronic 3		Dgr	H226. H304. H336. H412. EUH066	3295	III	3	NO	F1
Exxsol D30	Flam. Liquid 3. Aspiration Tox. 1. STOT SE 3 (narcosis). Aquatic Chronic 3		Dgr	H226. H304. H336. H412. EUH066	3295	III	3	NO	F1
Exxsol D40	Flam. Liquid 3. Aspiration Tox. 1. STOT SE 3 (narcosis)		Dgr	H226. H304. H336. EUH066	3295	III	3	NO	F1
Exxsol D60	Aspiration Tox. 1		Dgr	H304. EUH066	- [2]	-	-	NO	-
Exxsol D80	Aspiration Tox. 1		Dgr	H304. EUH066	- [2]	-	-	NO	-
Exxsol D220/230	Aspiration Tox. 1		Dgr	H304. EUH066	- [2]	-	-	NO	-
Exxsol D220/240	Aspiration Tox. 1		Dgr	H304. EUH066	- [2]	-	-	NO	-
Exxsol D100 ULA	Aspiration Tox. 1		Dgr	H304. EUH066	-	-	-	NO	-
Exxsol D120	Aspiration Tox. 1		Dgr	H304. EUH066	-	-	-	NO	-
Exxsol D140	Aspiration Tox. 1		Dgr	H304. EUH066	-	-	-	NO	-
Nappar 6	Flam. Liquid 2. Aspiration Tox. 1. STOT SE 3 (narcosis). Aquatic Chronic 2		Dgr	H225. H304. H336. H411. EUH066	3295	II	3	YES	F1
Varsol 30	Flam. Liquid 3. Aspiration Tox. 1. STOT SE 3 (narcosis). STOT RE 1 (central nervous system). Aquatic Chronic 2		Dgr	H226. H304. H336. H372. H411. EUH066	1300	III	3	YES	F1
Varsol 40	Flam. Liquid 3. Aspiration Tox. 1. STOT SE 3 (narcosis). STOT RE 1 (central nervous system). Aquatic Chronic 2		Dgr	H226. H304. H336. H372. H411. EUH066	1300	III	3	YES	F1
Varsol 60	Aspiration Tox. 1. STOT RE 1 (central nervous system). Aquatic Chronic 3		Dgr	H304. H372. H412. EUH066	- [2]	-	-	NO	-
Varsol 80	Aspiration Tox. 1. Aquatic Chronic 3		Dgr	H304. H412. EUH066	- [2]	-	-	NO	-
Varsol 120	Aspiration Tox. 1		Dgr	H304. EUH066	-	-	-	NO	-
Solvesso 100	Flam. Liquid 3. Aspiration Tox. 1. STOT SE 3 (respiratory). STOT SE 3 (narcosis). Aquatic Chronic 2		Dgr	H226. H304. H335. H336. H411. EUH066	1268	III	3	YES	F1
Solvesso 150	Aspiration Tox. 1. STOT SE 3 (narcosis). Carc. 2. Aquatic Chronic 2		Dgr	H304. H336. H351. H411. EUH066	3082	III	9	YES	M6
Solvesso 150 ND	Aspiration Tox. 1. STOT SE 3 (narcosis). Aquatic Chronic 2		Dgr	H304. H336. H411. EUH066	3082	III	9	YES	M6
Solvesso 200	Aspiration Tox. 1. Carc. 2. Aquatic Chronic 2		Dgr	H304. H351. H411. EUH066	3082	III	9	YES	M6
Solvesso 200 ND	Aspiration Tox. 1. Aquatic Chronic 2		Dgr	H304. H411. EUH066	3082	III	9	YES	M6

Safety and handling Information

Classification and labelling in the European Union according to CLP[1]					Transport classification				
Products	Hazard categories	Label pictogram signal word		Hazard statement code(s)	UN number	Packing group	Class/ Div. or label(s)	EHS/Marine pollutant (YES/NO)	Classification code
ExxonMobil IPA	Flam. Liquid 2. Eye Irrit. 2. STOT SE 3 (narcosis)		Dgr	H225. H319. H336	1219	II	3	NO	F1
ExxonMobil MEK	Flam. Liquid 2. Eye Irrit. 2. STOT SE 3 (narcosis)		Dgr	H225. H319. H336. EUH066	1193	II	3	NO	F1
ExxonMobil SBA	Flam. Liquid 3. Eye Irrit. 2. STOT SE 3 (respiratory). STOT SE 3 (narcosis)		Wng	H226. H319. H335. H336	1120	III	3	NO	F1

1 CLP: Classification, Labelling and Packaging (Regulation (EC) 1272/2008)
2 UN number or classification may not be appropriate for carriage in tank barges

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 upon request and consistent with sales specifications.

Technical question?
Connect directly with our technical experts at: FluidsAnswerPerson@exxonmobil.com

F0320-357E49

Contact us for more information:
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