

Isopar™

Exxsol™

Solvesso™

ExxonMobil

Typical properties 2018
Asia Pacific portfolio

Fluids at a glance

Energy lives here™



Fluids at a glance

Typical Properties 2018 - Asia Pacific

Hydrocarbon fluids All hydrocarbon fluids typically contain 1 ppm sulfur or lower		Distillation range °C		Flash point	Density at 15°C	Evaporation rate
Fluids		IBP	DP / FBP^	°C	kg/dm³	n-BuAc = 100
Isoparaffins All Isopar™ fluids typically contain less than 1 ppm benzene	Isopar C	98	104	< 0	0.699	380
	Isopar E	115	139	6	0.723	170
	Isopar G	165	177	44	0.749	14
	Isopar H	178	189	53	0.758	6.9
	Isopar L	185	198	64	0.765	4.5
	Isopar M	227	254	97	0.786	0.3
Dearomatized All Exxsol™ D fluids typically contain less than 1 ppm benzene	Exxsol hexane	66	68	< 0	0.676	1400
	Exxsol heptane	94	99	< 0	0.695	460
	Exxsol DSP 80/100	88	105	< 0	0.730	610
	Exxsol DSP 145/160	147	159	33	0.761	38
	Exxsol D40	169	187	49	0.776	12
	Exxsol D60	184	216	64	0.788	4.5
	Exxsol D80	207	240	82	0.795	1.3
	Exxsol D95	222	241	93	0.796	0.5
	Exxsol D100 ULA	236	265^	103	0.819	0.2
	Exxsol D110	249	269	114	0.812	< 0.1
	Exxsol D130	281	313	138	0.832	< 0.1
Aromatics All Solvesso™ fluids typically contain less than 1 ppm benzene	Solvesso 100	161	179	48	0.877	21
	Solvesso 150	181	209	68	0.892	7.2
	Solvesso 150 ND	179	194	64	0.886	8.7
	Solvesso 200	231	282	103	0.991	0.6
	Solvesso 200 ND	246	302^	116	0.982	0.3
Dearomatized Thailand production	Exxsol hexane	66	69	< 0	0.679	1400
	Exxsol DSP 80/100	80	95	< 0	0.732	780
	Exxsol D80	206	246	83	0.803	1.3
Non-dearomatized Thailand production	Solvent 3040	154	199	42	0.791	18

Vapor pressure at 20°C (ExxonMobil method/ ESIG tool^)	Aromatic content	Aniline point/ mixed aniline point^	Kinematic viscosity at 25°C	Kinematic viscosity at 40°C	Color Saybolt/ASTM scale^	Refractive index at 20°C	CAS number	
kPa	wt%	°C	mm²/s	mm²/s				Fluids
5	0.001	79	0.69	0.60	+30	1.390	64741-66-8	Isopar C
2	0.001	72	0.82	0.70	+30	1.402	64741-66-8	Isopar E
0.1	0.001	84	1.47	1.19	+30	1.416	64742-48-9	Isopar G
0.1	0.001	85	1.80	1.41	+30	1.421	64742-48-9	Isopar H
0.05	0.003	81	1.57	1.26	+30	1.426	64742-48-9	Isopar L
0.003	0.004	91	4.23	3.00	+30	1.435	64742-47-8	Isopar M
18	< 0.001	64	0.43	0.36	+30	1.379	64742-49-0	Exxsol hexane
5	0.001	69	0.56	0.49	+30	1.388	64742-49-0	Exxsol heptane
7	< 0.001	55	0.67	0.54	+30	1.403	64742-49-0	Exxsol DSP 80/100
0.4	0.002	64	1.01	0.84	+30	1.421	64742-48-9	Exxsol DSP 145/160
0.1	< 0.001	69	1.26	1.03	+30	1.428	64742-48-9	Exxsol D40
0.05	0.001	71	1.59	1.28	+30	1.434	64742-48-9	Exxsol D60
0.014	0.001	75	2.09	1.65	+30	1.440	64742-47-8	Exxsol D80
0.005	0.003	78	2.41	1.87	+30	1.441	64742-47-8	Exxsol D95
0.003	0.005	78	3.14	2.34	+30	1.450	64742-47-8	Exxsol D100 ULA
0.001	0.1	83	3.69	2.64	+30	1.445	64742-47-8	Exxsol D110
< 0.001	0.7	88	6.30	4.39	+30	1.455	64742-46-7	Exxsol D130
0.2	> 99	13^	0.92	0.77	+30	1.502	64742-95-6	Solvesso 100
0.08	>99	15^	1.22	1.00	+30	1.513	64742-94-5	Solvesso 150
0.09	>99	16^	1.15	0.95	+30	1.507	64742-94-5	Solvesso 150 ND
0.01	>99	13^	2.93	2.15	L0.5^	1.587	64742-94-5	Solvesso 200
0.002	>99	15^	3.86	2.69	<1.0^	1.580	64742-94-5	Solvesso 200 ND
17	0	62	0.44	0.35	+30	1.382	64742-49-0	Exxsol hexane
10	0	50	0.69	0.56	+30	1.404	64742-49-0	Exxsol DSP 80/100
0.013	< 0.1	73	2.18	1.71	+30	1.443	64742-47-8	Exxsol D80
0.2	23	52	1.20	0.99	+30	1.442	64742-82-1	Solvent 3040

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.

* Vapor hazard ratio is the ratio of the ability of the solvent to evaporate (represented by its saturated vapor concentration) to the OEL. VHR < 3 indicates minimal risk of overexposure under conditions of normal ventilation.

Exposure limits		GHS Classification & Labeling - AP generic (non-country specific) except for Thailand production						
Occupational exposure limit OEL (RCP-TWA) mg/m³	Vapor hazard ratio at 20°C (calculated*)	Hazard Categories	Hazard statements	Label pictogram and signal word				
1400	149	Flam. liquid 2; Asp tox. 1; Skin irr. 2; STOT SE 3 (narcosis); Aquatic acute 2; Aquatic chronic 2	H225; H304; H315; H336; H411					Dgr
1200	81	Flam. liquid 2; Asp tox. 1; Skin irr. 2; STOT SE 3 (narcosis); Aquatic acute 2; Aquatic chronic 2	H225; H304; H315; H336; H411					Dgr
1200	7	Flam. liquid 3; Asp tox. 1; Skin irr. 3; Aquatic chronic 2	H226; H304; H316; H411					Dgr
1200	4	Flam. liquid 3; Asp tox. 1; Skin irr. 3	H226; H304; H316					Dgr
1200	3	Flam. liquid 4; Aspiration tox. 1	H227; H304					Dgr
1200	< 1	Aspiration tox. 1	H304					Dgr
300	2092	Flam. liquid 2; Asp tox. 1; Skin irr. 2; STOT SE 3 (narcosis); Repr.2; STOT RE 2; Aquatic acute 2; Aquatic chronic 2	H225; H304; H315; H336; H361; H373; H411					Dgr
1600	142	Flam. liquid 2; Asp 1; Skin irr. 2; STOT SE 3 (narcosis); Aquatic acute 2; Aquatic chronic 2	H225; H304; H315; H336; H411					Dgr
1000	304	Flam. liquid 2; Asp tox. 1; Skin irr. 2; STOT SE 3 (narcosis); Aquatic acute 2; Aquatic chronic 2	H225; H304; H315; H336; H411					Dgr
1200	20	Flam. liquid 3; Asp tox. 1; Skin irr. 3; STOT SE 3 (narcosis); Aquatic acute 3; Aquatic chronic 3	H226; H304; H316; H336; H412					Dgr
1200	7	Flam. liquid 3; Asp tox. 1; Skin irr. 3; STOT SE 3 (narcosis)	H226; H304; H316; H336					Dgr
1200	3	Flam. liquid 4; Asp tox. 1; Skin irr. 3	H227; H304; H316					Dgr
1200	1	Flam. liquid 4; Aspiration tox. 1	H227; H304					Dgr
1200	<1	Flam. liquid 4; Aspiration tox. 1	H227; H304					Dgr
1200	<1	Aspiration tox. 1	H304					Dgr
1200	<1	Aspiration tox. 1	H304					Dgr
5 (aerosol)	<1	Aspiration tox. 1	H304					Dgr
100	115	Flam. liquid 3; Asp tox. 1; Oral acute 5; Skin irr. 3; STOT SE 3 (respiratory); STOT SE 3 (narcosis); Carc. 2; Aquatic acute 2; Aquatic chronic 2	H226; H303; H304; H316; H335; H336; H351; H411					Dgr
100	44	Flam. liquid 4; Asp tox. 1; STOT SE 3 (narcosis); Carc. 2; Aquatic acute 2; Aquatic chronic 2	H227; H304; H336; H351; H411					Dgr
100	52	Flam. liquid 4; Asp tox. 1; STOT SE 3 (narcosis); Aquatic acute 2; Aquatic chronic 2	H227; H304; H336; H411					Dgr
50	7	Asp tox. 1; Carc. 2; Aquatic acute 2; Aquatic chronic 2	H304; H351; H411					Dgr
50	3	Aspiration tox. 1; Aquatic chronic 2	H304; H411					Dgr
300	2028	Flam. liquid 2; Asp tox. 1; Skin irr. 2; STOT SE 3 (narcosis); Repr. 2; STOT RE 2; Aquatic acute 2; Aquatic chronic 2	H225; H304; H315; H336; H361; H373; H411					Dgr
600	597	Flam. liquid 2; Asp tox. 1; Skin irr. 2; STOT SE 3 (narcosis); STOT RE 2; Aquatic acute 2; Aquatic chronic 2	H225; H304; H315; H336; H361; H411					Dgr
1200	1	Flam. liquid 4; Aspiration tox. 1	H227; H304					Dgr
300	40	Flam. liquid 3; Asp tox. 1; Skin irr. 3; STOT SE 3 (narcosis); Aquatic acute 2; Aquatic chronic 2	H226; H304; H316; H336; H411					Dgr



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