

**Hydrocarbons 95 %
Petroleum Ether**

Hydrocarbons 95 %

Our range of hydrocarbons 95 % offers a wide selection of high-grade quality products, which meet the high requirements for components utilised in demanding chemical processes.

The hydrocarbons 95 % product range comprises aliphatic and alicyclic hydrocarbons with a minimum purity of 95 % and covers a chain length ranging from C5 to C16. For more far reaching, process-induced quality requirements, please refer to the hydrocarbons 99 % product group.

Hydrocarbons 95 % are used in numerous industrial processes. The applications range from propellant components for plastic foams and cosmetics, process adjuvants and reaction media in the pharmaceutical, agrochemical and fine chemical industries, to specific printing inks and latent heat storage.

Hydrocarbons 95 % are excellently suited as high-purity solvents in crystallisation, extraction, HPLC and SMB chromatography processes. Special low-odour qualities have been specifically developed for cosmetic applications.

Hydrocarbons 95 %	CAS-No.	Colour	Density	Distillation range	Evaporation rate	Refractive index
Typical Properties		ISO 6271	at 15°C kg/m ³ ISO 12185	at 101.3 kPa ASTM D 1078	(Ether = 1) DIN 53170	n _D 20 DIN 51423-2
iso-Pentane	78-78-4	< 5	624	27-29	< 1.0	1.354
n-Pentane	109-66-0	< 5	631	36-38	1.0	1.358
n-Hexane	110-54-3	< 5	665	68-70	1.5	1.375
n-Heptane	142-82-5	< 5	688	97-100	3.1	1.388
iso-Octane (2,2,4-Trimethylpentane)	540-84-1	< 5	696	98-101	2.9	1.392
n-Octane	111-65-9	< 5	708	124-127	8.0	1.398
n-Nonane*	111-84-2	< 5	723	150-154	24.0	1.405
n-Decane	124-18-5	< 10	733	172-177	67.0	1.412
n-Undecane	1120-21-4	< 10	744	193-198	-	1.417
n-Dodecane	112-40-3	< 10	753	214-219	-	1.422
n-Tridecane*	629-50-5	< 10	760	233-238	-	1.426
n-Tetradecane*	629-59-4	< 10	767	251-256	-	1.429
n-Pentadecane*	629-62-9	< 10	772	268-273	-	1.432
n-Hexadecane	544-76-3	< 10	775	285-292	-	1.434
Cyclopentane	287-92-3	< 5	748	48-50	1.4	1.405
Methylcyclopentane*	96-37-7	< 5	752	70-73	1.7	1.409
Cyclohexane	110-82-7	< 5	783	79-82	2.5	1.426
Methylcyclohexane	108-87-2	< 5	773	99-102	3.7	1.423

Hydrocarbons 95 %	Aniline point	Aromatic content	Non-volatile matter	Flash point	Vapour pressure	Kinetic viscosity
Typical Properties	°C ISO 2977	% m/m GC/UV-Spectroscopy	mg/100ml DIN 53172/ ASTM D 1353	°C ISO 2719/ ISO 13736	kPa at 20°C (1kPa = 10mbar)	mm ² /s (cSt) at 20°C ISO 3104
iso-Pentane	-	< 0.001	< 2	< -20	56.9	0.35
n-Pentane	69	< 0.01	< 2	< -20	40.9	0.39
n-Hexane	68	< 0.01	< 2	< -20	12.5	0.47
n-Heptane	70	< 0.02	< 2	< -4	3.9	0.58
iso-Octane (2,2,4-Trimethylpentane)	79	< 0.01	< 2	-10	3.7	0.68
n-Octane	73	< 0.01	< 5	+12	1.3	0.74
n-Nonane*	74	< 0.03	< 5	+30	0.38	0.96
n-Decane	77	< 0.01	< 5	+45	0.16	1.12
n-Undecane	80	< 0.1	< 5	+67	0.04	1.46
n-Dodecane	85	< 0.1	< 5	+79	0.02	1.87
n-Tridecane*	88	< 0.05	< 5	+95	0.01	2.34
n-Tetradecane*	92	< 0.05	< 5	≥ +100	0.003	2.85
n-Pentadecane*	94	< 0.05	< 5	> +110	0.001	3.52
n-Hexadecane	98	< 0.05	< 5	> +125	0.0003	4.29
Cyclopentane	18	< 0.001	< 2	< -20	34.6	0.59
Methylcyclopentane*	35	< 0.01	< 2	< -10	14.7	0.68
Cyclohexane	31	< 0.015	< 2	-18	10.3	1.26
Methylcyclohexane	46	< 0.05	< 2	< 0	4.8	0.95

Sulphur content < 5ppm • Purity > 95% m/m • *On request

Petroleum Ether

Petroleum ether are low-aromatic and low-boiling hydrocarbon fractions (25–80 °C) with narrowly defined boiling ranges. They are ideally suited for applications in which a quick evaporation of the solvent is required. Custom and low hexane options

are also available. The data below represents typical values. Specifications and Certificates of Analysis can be provided on request. All products are supplied in 200 litre drums and bulk. Other packages are available on request.

Petroleum Ether	CAS-No.	Colour	Density	Distillation range	Evaporation rate	Refractive index
Typical Properties		ISO 6271	at 15°C kg/m ³ ISO 12185	at 101.3 kPa ASTM D 1078	(Ether = 1) DIN 53170	n _D 20 DIN 51423-2
Petroleum Ether 25/40	109-66-0	< 5	628	25–40	< 1.0	1.357
Petroleum Ether 30/40	109-66-0	< 5	630	30–40	< 1.0	1.358
Petroleum Ether 30/50	64742-49-0	< 5	635	30–50	1.0	1.359
Petroleum Ether 40/60	64742-49-0	< 5	650	40–60	1.4	1.367
Petroleum Ether 50/70	64742-49-0	< 5	664	50–70	1.6	1.375
Petroleum Ether 40/80	64742-49-0	< 5	660	40–80	1.6	1.374
FAM-Standard-Naphtha DIN 51635	64742-49-0	< 5	698	65–95	2.2	1.390
Petroleum Ether 60/80 AF	64742-49-0	< 5	677	60–80	1.8	1.387
Petroleum Ether DAB 10 (max. 2% n-Hexane)	64742-49-0	< 5	650	min. 75% 40–60	1.5	1.368
Petroleum Ether for denaturation	64742-49-0	< 5	678	at 55°: 20% max. at 75°: 90% min.	1.6	1.373

Petroleum Ether	Flash point	Benzene content	n-Hexane	Aromatic content	Aniline point	Non-volatile matter
Typical Properties	°C ISO 2719/ISO 13736	mg/kg (ppm) GC	% m/m GC	% m/m GC/UV-Spectroscopy	°C ISO 2977	mg/100ml DIN 53172 ASTM D 1353
Petroleum Ether 25/40	< -40	< 10	< 1	-	-	< 2
Petroleum Ether 30/40	< -40	< 10	< 1	< 0.01	-	< 2
Petroleum Ether 30/50	< -40	< 30	< 5	< 0.02	-	< 2
Petroleum Ether 40/60	< -30	< 50	< 5	< 0.01	-	< 2
Petroleum Ether 50/70	< -30	< 100	35	< 0.01	-	< 2
Petroleum Ether 40/80	< -30	< 100	< 5	0.01	-	< 2
FAM-Standard-Naphtha DIN 51635	< -20	0.1	< 5	-	60	< 1
Petroleum Ether 60/80 AF	< -20	< 10	approx. 50	-	-	< 2
Petroleum Ether DAB 10 (max. 2% n-Hexane)	< -40	10	< 2	-	-	< 1
Petroleum Ether for denaturation	< -30	-	approx. 30	< 0.15	-	< 1

Sulphur content < 5ppm

Products and Markets

Haltermann Carless offers an ideal combination of decades of experience in the field of multiphase fractional distillation and production. A high level of customer orientation and flexibility ensures our customers receive skilled assistance and attention at all times. A high level of consistent quality is the hallmark of our products.

Haltermann Carless is ISO 9001 certified. Before using the referenced products, please refer to the relevant Safety Data Sheets or contact your Haltermann Carless representative.

Notice: The information and data contained herein do not constitute sales specifications. The product properties may be changed without notice. No liability, warranty or guarantee of product performance is created by this document. It is the Buyer's responsibility to determine whether Haltermann Carless products are appropriate for Buyer's use and to ensure that Buyer's workplace and disposal practices are in compliance with applicable laws and regulations. No freedom from any patents or other industrial or intellectual property rights is granted or to be inferred (November 2015).

Sales Contact

**Haltermann Carless
Deutschland GmbH**

Schlangendeich 17
21107 Hamburg
Deutschland
Phone: + 49 40 33318-0
de@h-c-s-group.com

**Haltermann Carless
France S.A.S.**

Zone d'Activités de la Baudrière n°1
27520 Bourghtheroulde
France
Phone: +33 2 32 13 14 50
france@h-c-s-group.com

**Haltermann Carless
UK Ltd.**

Grove House
Guildford Road
Leatherhead
Surrey KT22 9DF
United Kingdom
Phone: + 44 1372 380 516
uk@h-c-s-group.com

**Haltermann Carless
US Inc.**

22102 Highway 6,
Manvel, TX 77578
United States
Phone: +1 832 237 0500
us@h-c-s-group.com

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www.haltermann-carless.com