

ZEON'S ORGANIC CHEMICALS



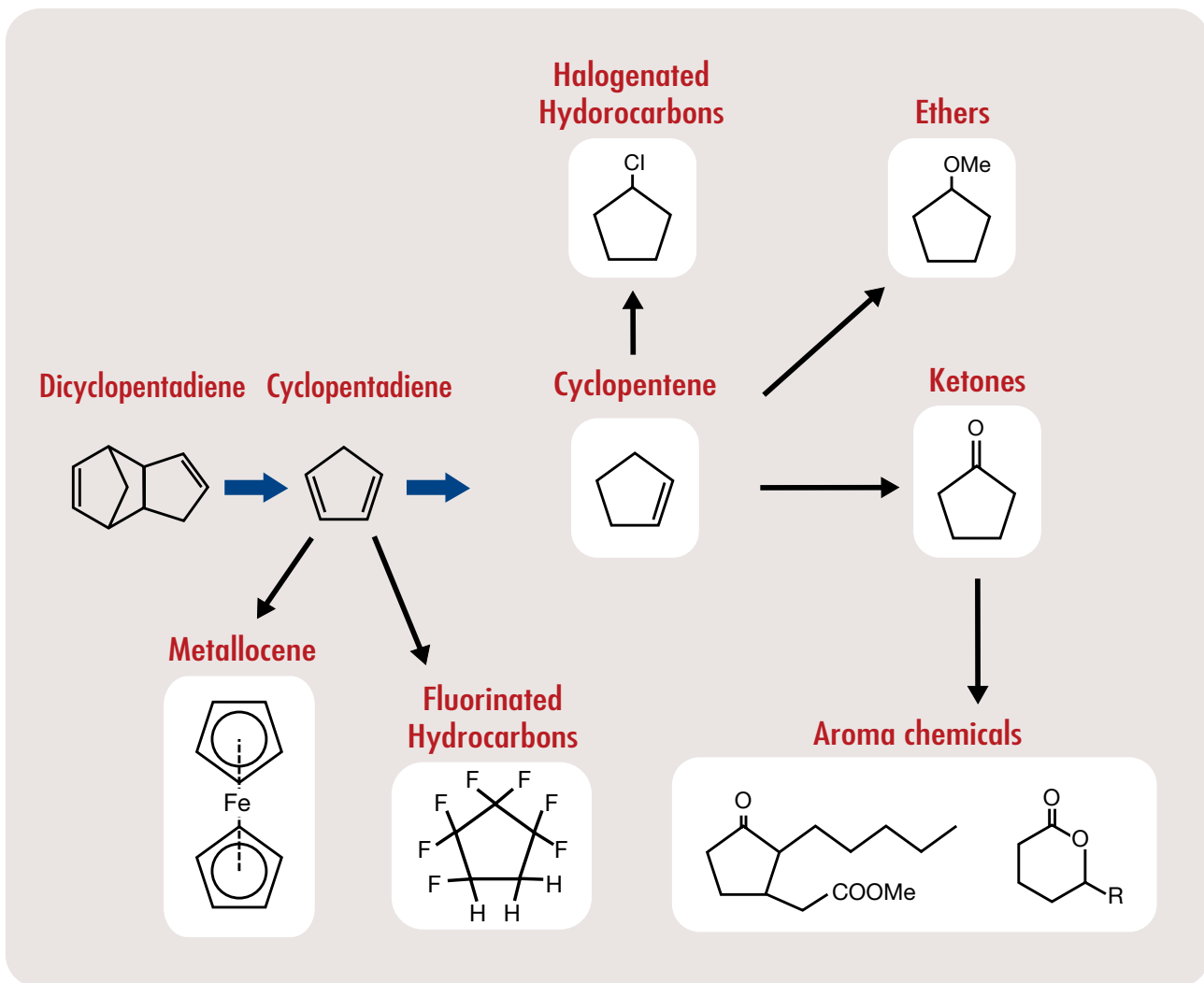
ZEON CORPORATION

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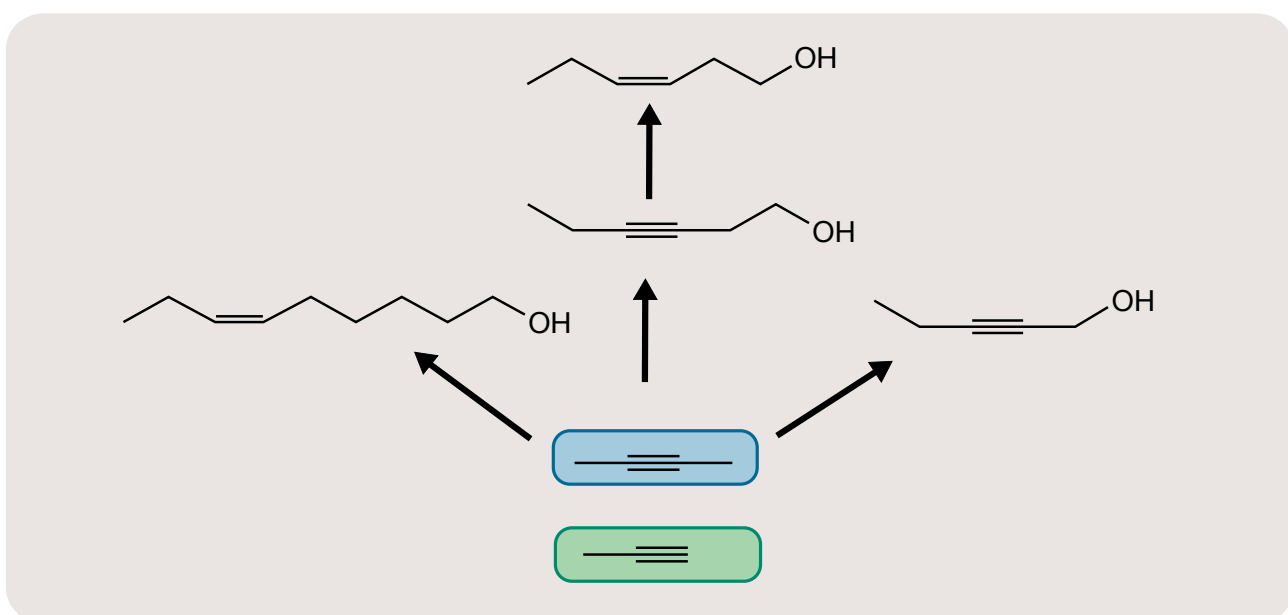


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CYCLOPENTADIENE DERIVATIVES



ALKYLACETYLENE DERIVATIVES



EXPLANATORY NOTES

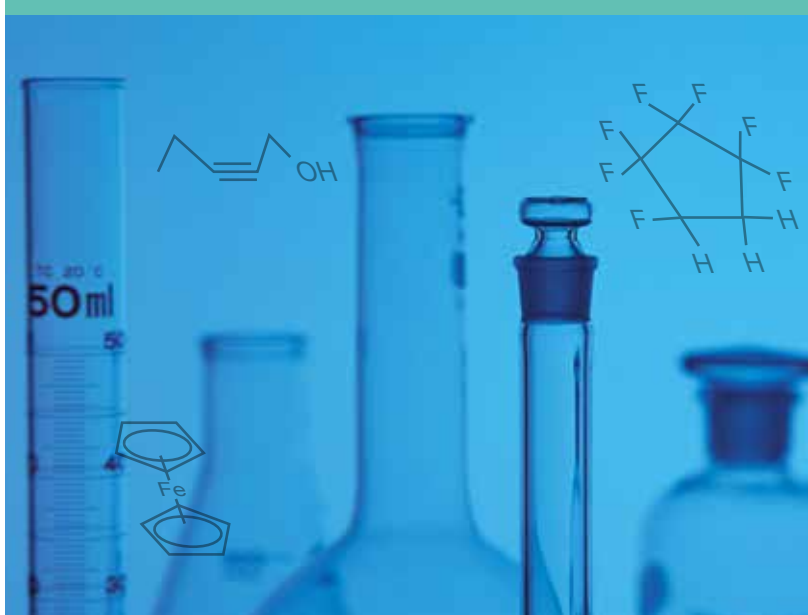
Registrations:

CAS. No.	Chemical Abstracts Service Registry Number
METI. No.	Existing chemicals number registered under the Ministry of Economy Trade and Industry (METI) Regulations
TSCA	Substance listed in the Toxic Substances Control Act inventory
EC	European Inventory of Existing Commercial Chemical Substances European List of Notified Chemical Substances
FEMA	Substance number in the Flavoring and Extract Manufacture's Association list
KOSHER	An item certificated to fit for consumption as KOSHER food according to Jewish law

Physical Properties:


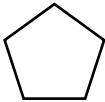
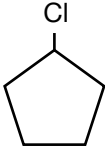
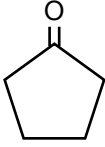
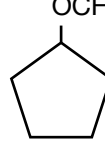
- bp : Boiling point
- mp : Melting point
- fp : Flash point
- d : Density (20/20)

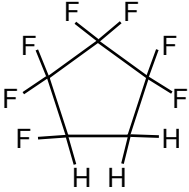
ORGANIC CHEMICALS



ORGANIC CHEMICALS

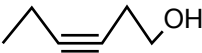
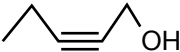
5-MEMBERED RING COMPOUNDS

Product Name CAS No.	Structure Formula M.W.	Physical properties	Registrations
Cyclopentene 142-29-0	 C ₅ H ₈ 68.12	bp 44°C fp <-20°C (closed cup) d 0.774	METI [3-3439] TSCA EC [205-532-9]
Cyclopentane (ZEONSOLV™ HP) 287-92-3	 C ₅ H ₁₀ 70.13	bp 50°C fp <-20°C (closed cup) d 0.751	METI [3-4166] TSCA EC [206-016-6]
Cyclopentylchloride 930-28-9	 C ₅ H ₉ Cl 104.58	bp 114°C fp 17.5°C (closed cup) d 1.005	METI [3-4323] TSCA EC [213-212-5]
Cyclopentanone 120-92-3	 C ₅ H ₈ O 84.12	bp 130°C-131°C fp 34.5°C (closed cup) d 0.951	METI [9-2108] TSCA EC [204-435-9]
Cyclopentyl methyl ether 5614-37-9	 C ₆ H ₁₂ O 100.16	bp 106°C mp <-140°C fp -1°C (closed cup) d 0.86	METI [3-4548] TSCA EC [445-090-6]

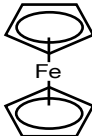
Product Name CAS No.	Structure Formula M.W.	Physical properties	Registrations
1,1,2,2,3,3,4-Heptafluoro- cyclopentane (ZEORORA®-H) 15290-77-4	 $C_5H_3F_7$ 196.07	bp 82.5°C mp 20.5°C fp none (closed cup) d 1.58	METI [3-4446] TSCA EC [430-710-1]

ORGANIC CHEMICALS

ALKYLACETYLENE DERIVATIVES

Product Name CAS No.	Structure Formula M.W.	Physical properties	Registrations
3-Hexyn-1-ol 1002-28-4	 <chem>C#CCCCO</chem> C ₆ H ₁₀ O 98.15	bp 63-64°C/16hpa fp 64°C (closed cup) d 0.898	METI [2-3191] TSCA EC [213-685-8]
2-Pentyn-1-ol 6261-22-9	 <chem>C#CCC(O)C</chem> C ₅ H ₈ O 84.12	bp 84-85°C/76hpa fp 57.3°C (closed cup) d 0.909	METI [2-3355] TSCA EC [228-411-2]

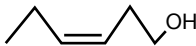

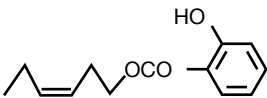
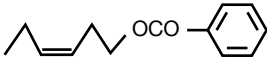

OTHERS



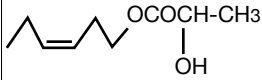
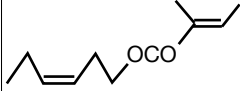
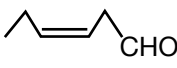
Product Name CAS No.	Structure Formula M.W.	Physical properties	Registrations
Ferrocene 102-54-5	 <chem>C1=CC=C(C=C1)[Fe]C2=CC=CC=C2</chem> C ₁₀ H ₁₀ Fe 186.04	mp 174-176°C	METI [3-2568] TSCA EC [203-039-3]

EMOSCENT® AROMA CHEMICALS

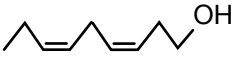

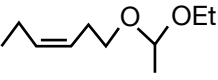


GREEN NOTES

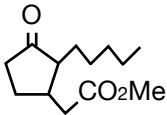
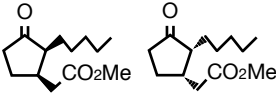
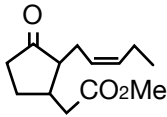
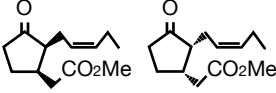
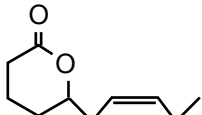
Product Name CAS No.	Structure Formula M.W.	Physical properties	Registrations
<i>cis</i> -3-Hexenol (Leaf alcohol) 928-96-1	 $C_6H_{12}O$ 100.16	fp 59±2°C (closed cup) d 0.850	METI [2-2393] TSCA EC [213-192-8] FEMA [2563] KOSHER
<i>cis</i> -3-Hexenyl acetate 3681-71-8	 $C_8H_{14}O_2$ 142.20	fp 57±2°C (closed cup) d 0.901	METI [2-2533] TSCA EC [222-960-1] FEMA [3171] KOSHER
<i>cis</i> -3-Hexenyl salicylate 65405-77-8	 $C_{13}H_{16}O_3$ 220.27	fp 156°C (open cup) d 1.062	METI [3-3041] TSCA EC [265-745-8] FEMA [4750] KOSHER
<i>cis</i> -3-Hexenyl benzoate 25152-85-6	 $C_{13}H_{16}O_2$ 204.27	fp 135°C (open cup) d 1.003	METI [3-1357] TSCA EC [246-669-4] FEMA [3688]
<i>cis</i> -3-Hexenyl n-butyrate 16491-36-4	 $C_{10}H_{18}O_2$ 170.25	fp 94°C (open cup) d 0.888	METI [2-760] TSCA EC [240-553-7] FEMA [3402]

Product Name CAS No.	Structure Formula M.W.	Physical properties	Registrations
<i>cis</i> -3-Hexenyl i-butyrate 41519-23-7	 $C_{10}H_{18}O_2$ 170.25	fp 76°C (closed cup) d 0.882	METI [2-760] TSCA EC [255-424-0] FEMA [3929]
<i>cis</i> -3-Hexenyl caproate (<i>cis</i> -3-Hexenyl hexanoate) 31501-11-8	 $C_{12}H_{22}O_2$ 198.31	fp 111°C (open cup) d 0.881	METI [2-760] TSCA EC [250-661-6] FEMA [3403]
<i>cis</i> -3-Hexenyl lactate 61931-81-5	 $C_9H_{16}O_3$ 172.23	fp 112°C (open cup) d 0.984	TSCA EC [263-337-4] FEMA [3690]
<i>cis</i> -3-Hexenyl tiglate 67883-79-8	 $C_{11}H_{18}O_2$ 182.27	fp 114°C (open cup) d 0.918	METI [2-972] TSCA EC [267-554-5] FEMA [3931]
<i>cis</i> -3-Hexenal 6789-80-6	 $C_6H_{10}O$ 98.15	fp 26°C (closed cup) d 0.926	METI [2-520] TSCA EC [229-854-4] FEMA [2561]

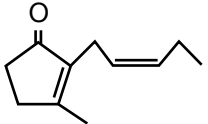
EMOSCENT® AROMA CHEMICALS

Product Name CAS No.	Structure Formula M.W.	Physical properties	Registrations
3,6-Nonadienol 76649-25-7	 $C_9H_{16}O$ 140.22	fp 104°C (open cup) d 0.872	METI [2-258] TSCA EC [278-518-3] FEMA [3885] KOSHER
<i>cis</i> -6-Nonenol 35854-86-5	 $C_9H_{18}O$ 142.24	fp 95°C (open cup) d 0.850	METI [2-258] TSCA EC [252-764-1] FEMA [3465] KOSHER
Acetaldehyde ethyl <i>cis</i> -3-hexenyl acetal (Leaf acetal) 28069-74-1	 $C_{10}H_{20}O_2$ 172.27	fp 69.5°C (closed cup) d 0.853	METI [2-2458] TSCA EC [248-817-3] FEMA [3775]

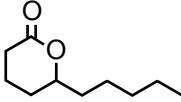
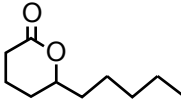
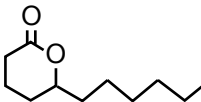
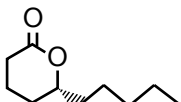
JASMINE NOTES

Product Name CAS No.	Structure Formula M.W.	Physical properties	Registrations
Methyl dihydrojasmonate (CLAIGEON™) 24851-98-7	 <chem>C13H22O3</chem> 226.32	fp 160°C (open cup) d 1.002	METI [3-3309] TSCA EC [246-495-9] FEMA [3408]
Methyl epi-dihydrojasmonate (CEPIONATE™) 24851-98-7	 <chem>C13H22O3</chem> 226.32	fp 160°C (open cup) d 1.004 epimer content 30.00~35.00%	METI [3-3309] TSCA EC [246-495-9] FEMA [3408]
Methyl jasmonate (JASMONEIGE™) 39924-52-2	 <chem>C13H20O3</chem> 224.30	fp 156°C (open cup) d 1.025	METI [3-3839] TSCA EC [254-705-5] FEMA [3410] KOSHER
Methyl epi-jasmonate (ZEPPIN™) 39924-52-2	 <chem>C13H20O3</chem> 224.30	fp 156°C d 1.027 epimer content 20.00~23.00%	METI [3-3839] TSCA EC [254-705-5] FEMA [3410] KOSHER
Jasminlactone 25524-95-2	 <chem>C10H16O2</chem> 168.24	fp 155°C (open cup) d 1.001	METI [5-6352] TSCA EC [247-074-2] FEMA [3745] KOSHER

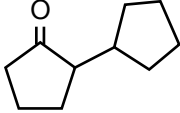
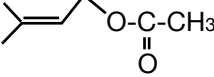
EMOSCENT® AROMA CHEMICALS

Product Name CAS No.	Structure Formula M.W.	Physical properties	Registrations
<i>cis</i> -Jasmon 488-10-8	 <chem>C1=CC(=O)C(C)C1C=CC</chem> C ₁₁ H ₁₆ O 164.25	fp 127.5°C (open cup) d 0.943	METI [3-2394] TSCA EC [207-668-4] FEMA [3196]

LACTONE NOTES

Product Name CAS No.	Structure Formula M.W.	Physical properties	Registrations
delta-Decalactone 705-86-2	 $C_{10}H_{18}O_2$ 170.25	fp 148°C (open cup) d 0.971	METI [5-698] TSCA EC [211-889-1] FEMA [2361]
delta-Undecalactone 710-04-3	 $C_{11}H_{20}O_2$ 184.28	fp 159°C (open cup) d 0.960	METI [5-698] TSCA EC [211-915-1] FEMA [3294]
delta-Dodecalactone 713-95-1	 $C_{12}H_{22}O_2$ 198.31	fp 171°C (open cup) d 0.951	METI [5-698] TSCA EC [211-932-4] FEMA [2401]
(R)-(+)-delta-Decalactone (delta-Decalactone R-80) 705-86-2		fp 148°C (open cup) d 0.971 ee > 80.00%	METI [5-698] TSCA EC [211-889-1] FEMA [2361] KOSHER

OTHERS

Product Name CAS No.	Structure Formula M.W.	Physical properties	Registrations
2-Cyclopentyl cyclopentanone 4884-24-6	 $C_{10}H_{16}O$ 152.24	fp 104°C (open cup) d 0.978	METI [4-1368] TSCA EC [225-495-2] FEMA [4514] KOSHER
Prenyl acetate 1191-16-8	 $C_7H_{12}O_2$ 128.17	fp 49.5°C (closed cup) d 0.921	METI [2-2532] TSCA EC [214-730-4] FEMA [4202]

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FOR MORE INFORMATION

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ZEON



ZEON CORPORATION

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