

This document contains three lists of ProScale processes currently available in the webtool (2022-09-02). The supply of processes is extended continuously and these lists will be updated at regular intervals.

ProScale process name

1,1-difluoroethane prod
1,3,5-trioxane prod
1,3-dioxolane prod
1,4-dichlorobenzene prod
10-undecenoic acid prod
11-bromoundecanoic acid prod
1-chloro-1.1-difluoroethane prod
2.6-dimethylphenol prod
2-ethylhexanol prod
4,4-difluorobenzophenone Prod
Acetic acid, carbonylation
acetic anhydride prod
Acetone cyanohydrin
acetylene prod
Acrylonitrile butadiene styrene
Acrylonitrile butadiene styrene
Acrylonitrile prod
Adipic acid prod
Adiponitrile prod
Aluminium oxide refining
Ammonia, Harber-Bosch
Ammonium nitrite prod
ATBC prod
bis(4-chlorophenyl)sulfone prod
Boric acid prod
BTX catalytic reforming
Butadiene dehydrogenation
Butanol prod, oxo process
calcium carbide prod
Caprolactam Prod Beckmann rearrangement
Carbon monoxide Prod Boudouard reaction
Chlorobenzene prod
Chloroform prod
Chrlorine brine electrolysis
citric acid prod
Coal tar carbonization
Coke tar Prod
Cracking products Steam cracking - hydrogen, methane, ethylene, propylene, butene, butadiene, raw pyrolysis gasoline (pygas), fuel oil (gasoline
creosote impregnation
Crude oil extraction

ProScale process name

Cyclohexanone hydrogenation of phenol
Cyclohexanone oxidation of cyclohexane
Cyclohexanone oxime condensation reaction
Cyklohexanone oxime Prod
Cyklohexanone Prod Hydrogenation of phenol
Cyklohexanone Prod Oxidation of cyclohexane
DEHA prod
DEHP prod
DINCH production
DINP production
DOTP prod esterification
DOTP prod transesterification
ESBo prod
Ethanolamine Prod
Ethylbenzene
Ethylene dichloride
Ethylene dichloride oxychlorination
Ethylene oxide oxidation
Ethyleneglycol hydrolysis
extraction grade hexane prod
fluorinated ethylene propylene prod
Fluorobenzene Prod
Fluoroboric acid Prod
Formaldehyde prod
formic acid prod
Glass filled PA6.6 (30%) Prod Injection molding
Glass filled PA6.6 (50%) Prod Injection molding
Glass filled PK (50%) Prod Injection molding
Glass filled PP (20%) Prod Injection molding
Glass filled PP (30%) Prod Injection molding
Glass filled PPS (40%)
Glass filles PA6 (30%) Prod Injection molding
Glass filles PA6 (50%) Prod Injection molding
H2 steam reforming
HDPE polymerisation
Hexafluoropropylene prod
Hexanedimethylenediamine prod
Hydrofluoric acid Prod
hydrogen bromide prod
Hydrogen cyanide
Hydrogen fluoride prod
hydrogen peroxide prod

ProScale process name

Hydroquinone prod
Hydroxylamine
MDA prod
MDI prod
Methyl-10-undecenoate prod
MMA
Natural gas extraction
n-butyraldehyde prod
Nitrogen
Nitrogen dioxide prod
Nitrogen monoxide prod
Oil refining
Oxygen prod
O-xylene sep
PA11
PA11 prod
PA6
PA6.6
Paint application
Paint production
PC
PC/ABS blend
peroxyacetic acid prod
peroxyformic acid prod
Phenol and acetone prod
Phenol catalytic rearrangement
phtalic anhydride
PMMA
Poly proylene
Poly styrene
Polyamid 11 (nylon 11)
Polyamid 6
Polyamid 6.6
Polyamide-imide (PAI) prod
Polybutadien
Polybutadiene polymerisation
Polybutylene terephthalate + Polycarbonate
Polycarbonate
Polyether ketone
Polyether sulfone
Polyetherimides (PEI) Prod
polyethersulfone

ProScale process name

Polyethylene terephthalate
Polyketone
Polymethyl methacrylate
Polyoxymethylene (POM) prod
polyphenyl ether (PPE) prod
polyphenylene sulfide (PPS) prod
Polypropylene
Polystyrene
polysulfone prod
Polyvinyl chloride rigid suspension polymerization
PPE/PA prod
Propylene Prod
PTFE prod
PVDF prod
p-xylene crystallization
Rapeseed oil
Rapessed cultivation
Rapsmethylester (RME)
SAN
Sodium carbonate Prod Solvay process
Sodium chloride brine purification
Sodium hydroxide Prod
Sodium hydroxide Prod
Sodium sulfate prod
Sodium sulfide prod
soybean oil prod
Steam cracking
Styrene acrylate dispersion
Styrene and propylene oxide Prod Oxirane process
Styrene butadiene rubber prod
Styrene dehydrogenation
Styrene thermoplastic elastomer
Styrene-acrylonitrile
Syngas steam reforming
TFE prod
Trimellitic anhydride prod
tri-n-butyl citrate prod
Vinyl chloride
Vinyl chloride production
Vinylidene difluoride prod

The following list contains ProScale processes based on Ecolnvent data, available for those with Ecolnvent license.

ProScale process name, Ecolnvent data

ABS Prod
Acrylic acid
Acrylonitrile
Allyl chloride Prod
Aniline hydrogenation
Bauxite mining
Bisphenol A powder Prod
BPA bisphenol A epoxy based vinyl ester resin
Butanol
Butyl acrylate
Calcium carbonate mining
Calcium oxide calcination
Carbon dioxide Prod
Carbon sulfide Prod
Chromite ore mining
Copper electrorefining
Copper mining
Copper smelting
Copper wire Prod
Creosote distillation
Cumene catalytic alkylation
Cyclohexane hydrogenation
EPDM Prod
Epichlorohydrin Prod
Epoxy resin Prod
Ferrochromium Prod
Graphite, battery grade, Prod
Hardwood pulpwood Prod
Hydrotreated vegetable oil (HVO)
Iron ore mining
Iron pellet Prod
Iron sinter Prod
Isopropanol direct hydration
Kaolin (China clay)
LDPE polymerisation
Lubricating oil Prod
Methacrylic acid Prod
Methanol
Methyl chloride (chloromethane) Prod
Methyl methacrylate Prod

ProScale process name, Ecoinvent data

Nickel class 1 Prod
Nickel mining
Nitric acid oxidation
Nitrobenzene nitration
Paper Prod woodfree uncoated at non-integrated mill
PC Polycarbonate Prod
Petroleum coke Prod
Phosgene Prod
Phosphate mining
Phosphoric acid fertilizer grade Prod
Phosphoric acid, industrial grade purification process
Pig iron Prod
PLA Polylactic acid Prod
PMMA Polymethyl methacrylate
PP Polypropylene Prod
Propylene glycol prod
Propylene glycol Prod
Propylene oxide
Propylene oxide Prod
Quartz mining
Ring spinning of viscose fibre
Rutile(TiO₂) Prod
Sand mining
Silica purification
Silica sand Prod
Silicone product Prod
Sodium cyanide Prod
Sodium hypochlorite Prod
Stainless steel Prod
Styrene
Sulfate pulp Prod, from hardwood, bleached
Sulfur
Sulfur dioxide Prod
Sulfur Prod, from petroleum refinery
Sulfuric acid
Sulfuric acid Prod
Titanium dioxide Prod chloride process
Titanium dioxide Prod, chloride process
Titanium tetrachloride Prod, Kroll process
Titanium Prod, triple melt Kroll process
Weaving of viscose rayon yarn

ProScale process name, Ecoinvent data

Viscose fibre Prod
Zinc chloride Prod
Zinc mining
Zinc oxide french process

The following list contains ProScale processes based on GaBi data, available for those with GaBi license.

ProScale process name, GaBi data

Coal mining
Dimethyl terephthalate
Glass fiber
Hydrogen chloride burner process
Polyethylene terephthalate
Terephthalic acid
